

FIGURE 1

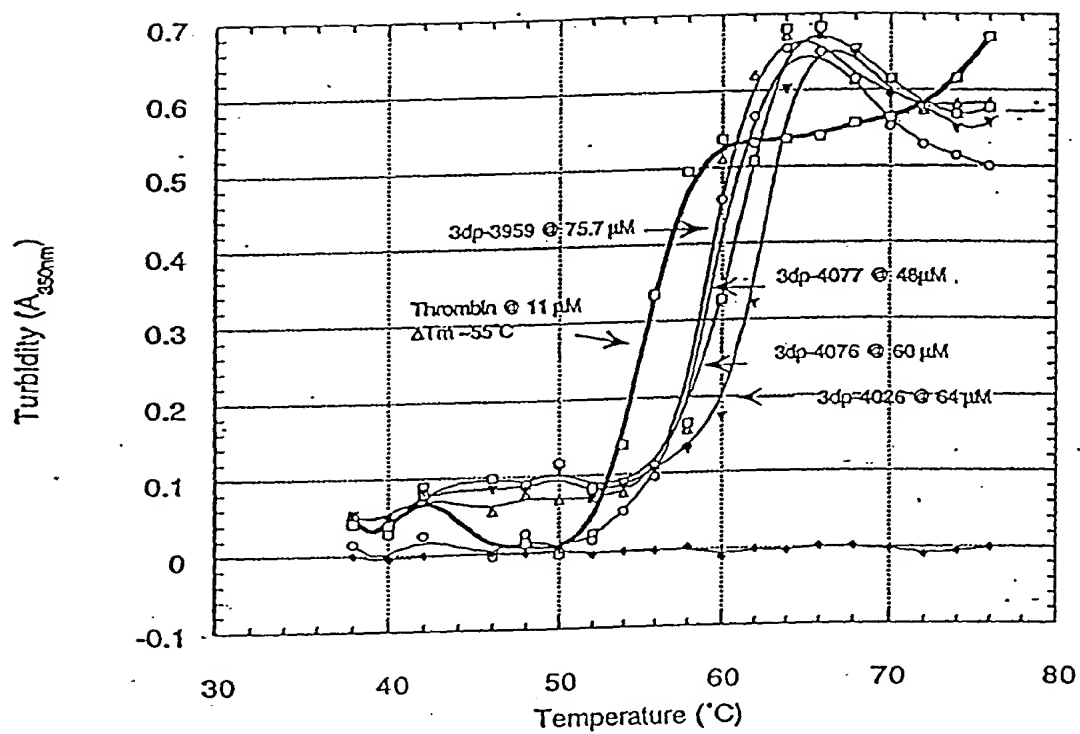


FIGURE 2

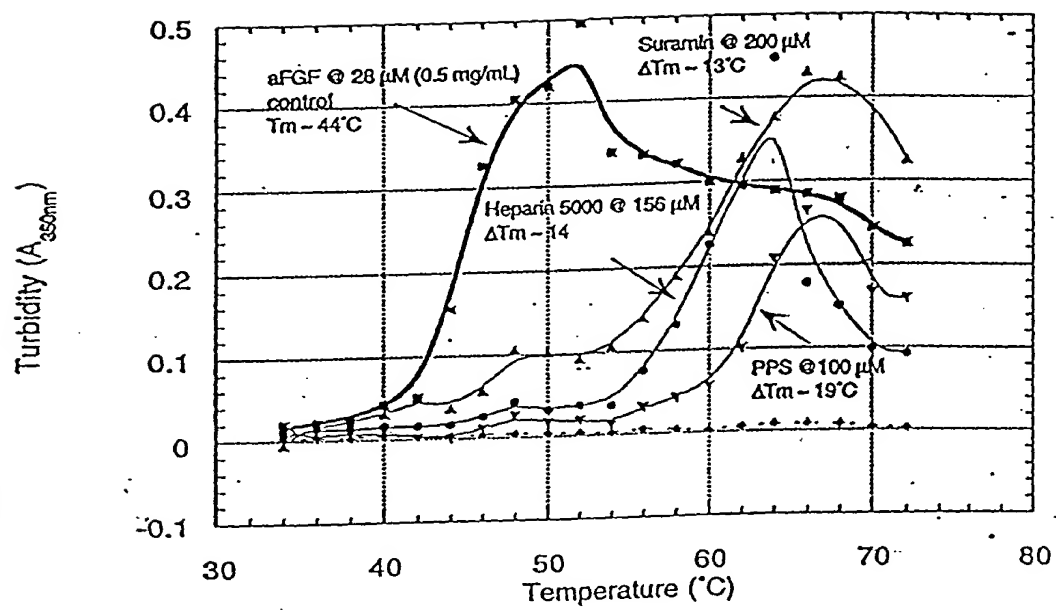


FIGURE 3

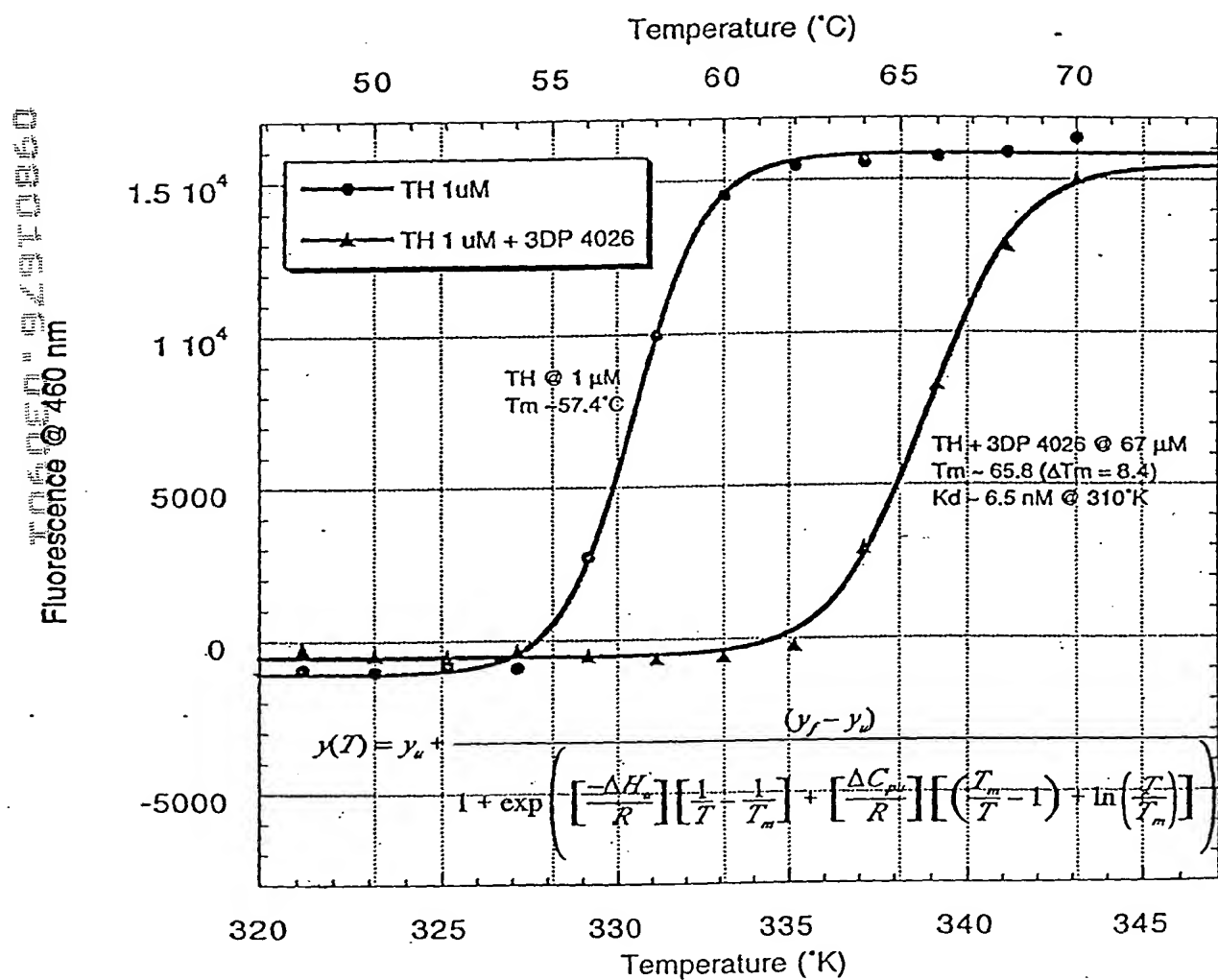
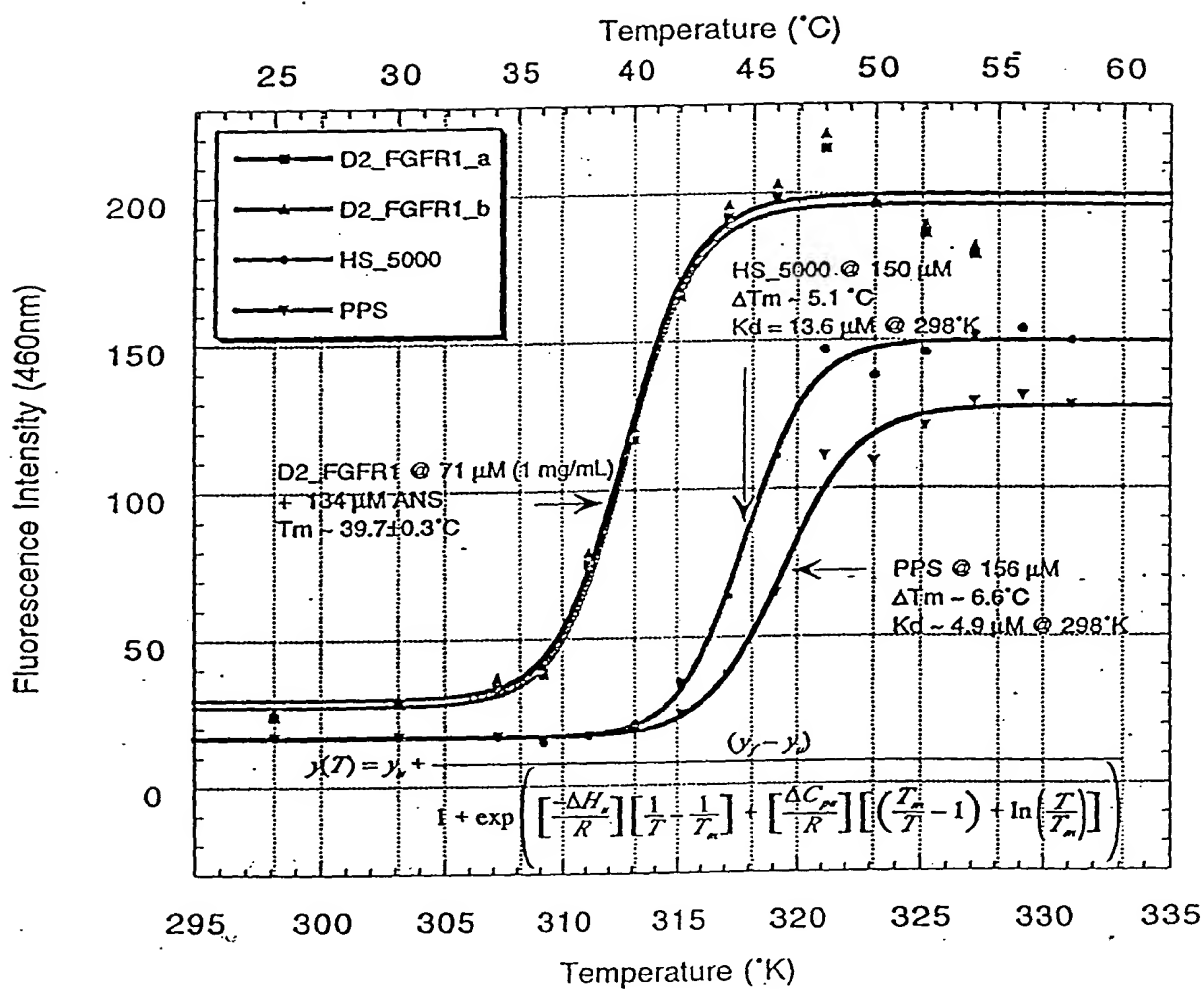


FIGURE 4



# FIGURE 5

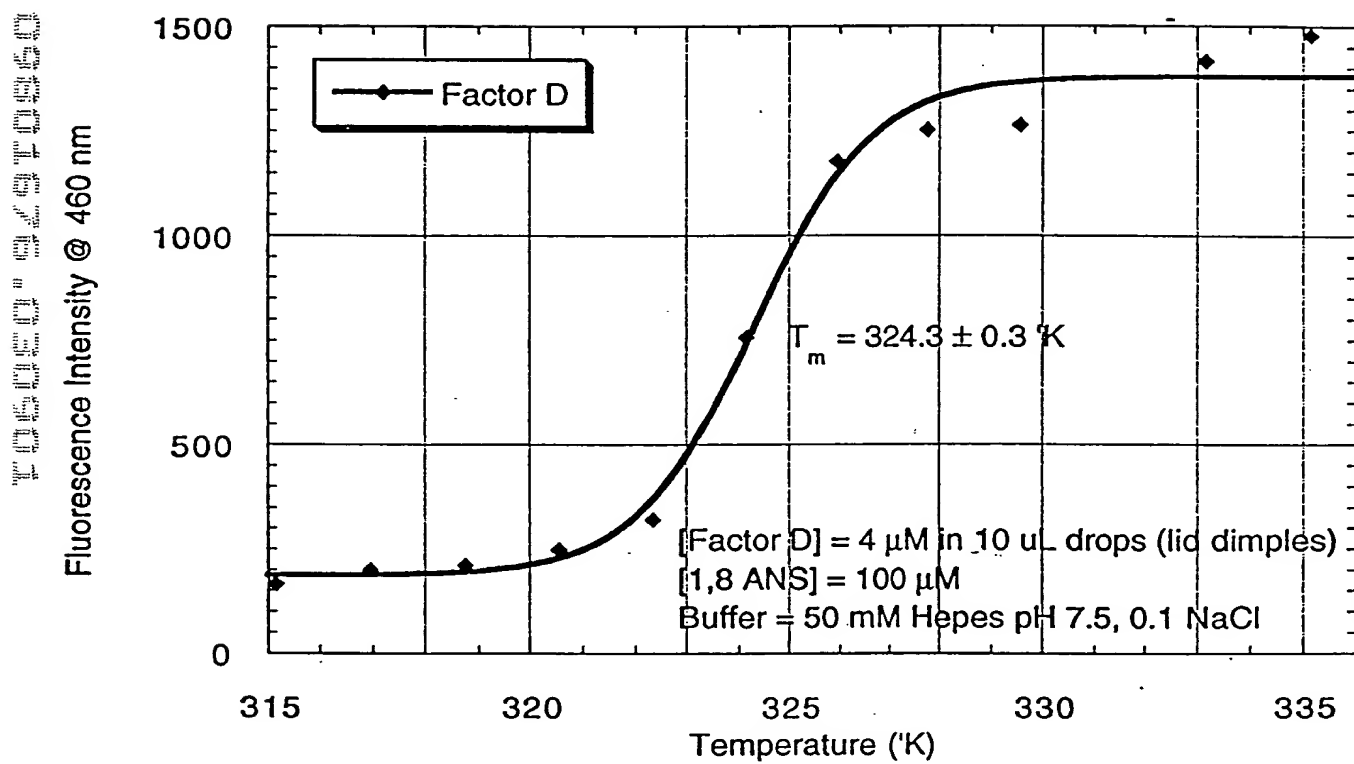


FIGURE 6

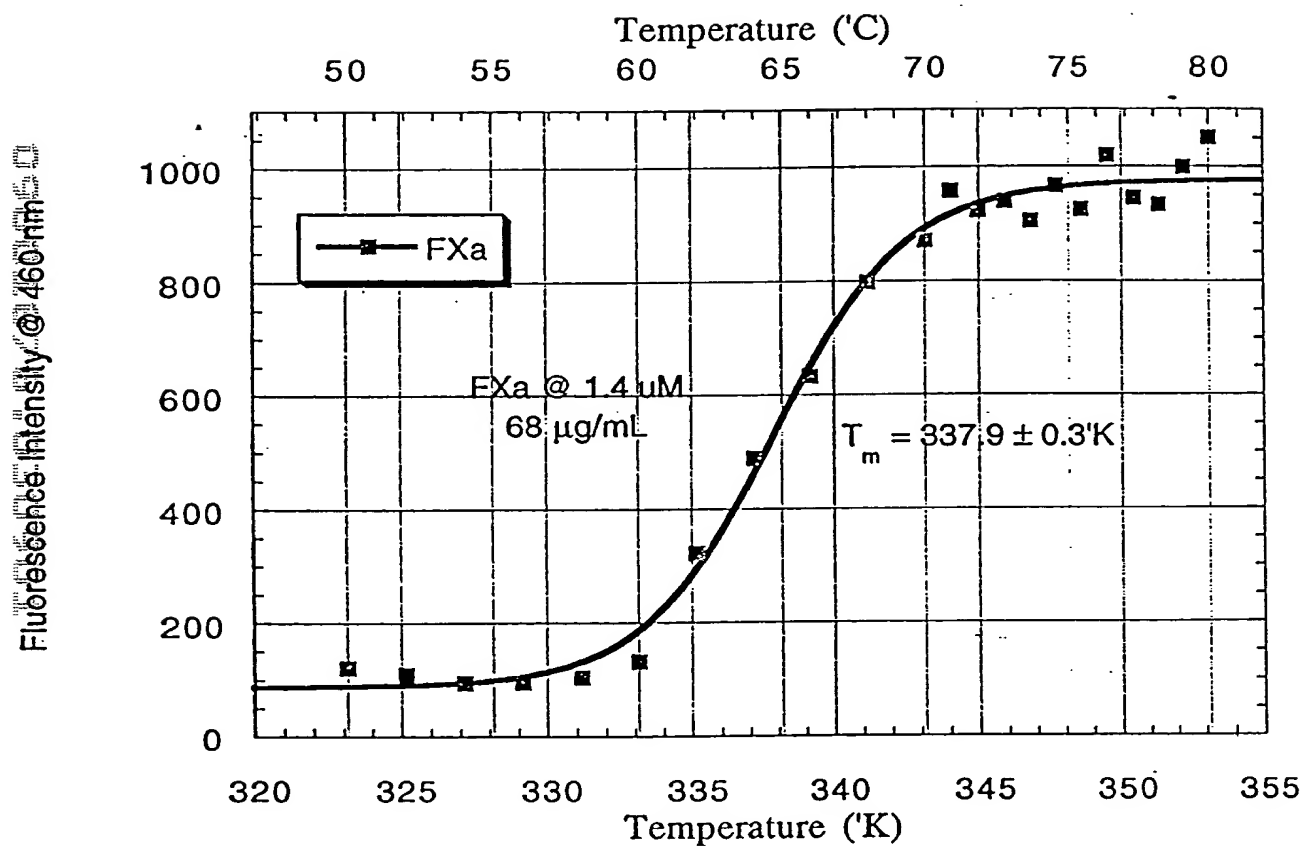
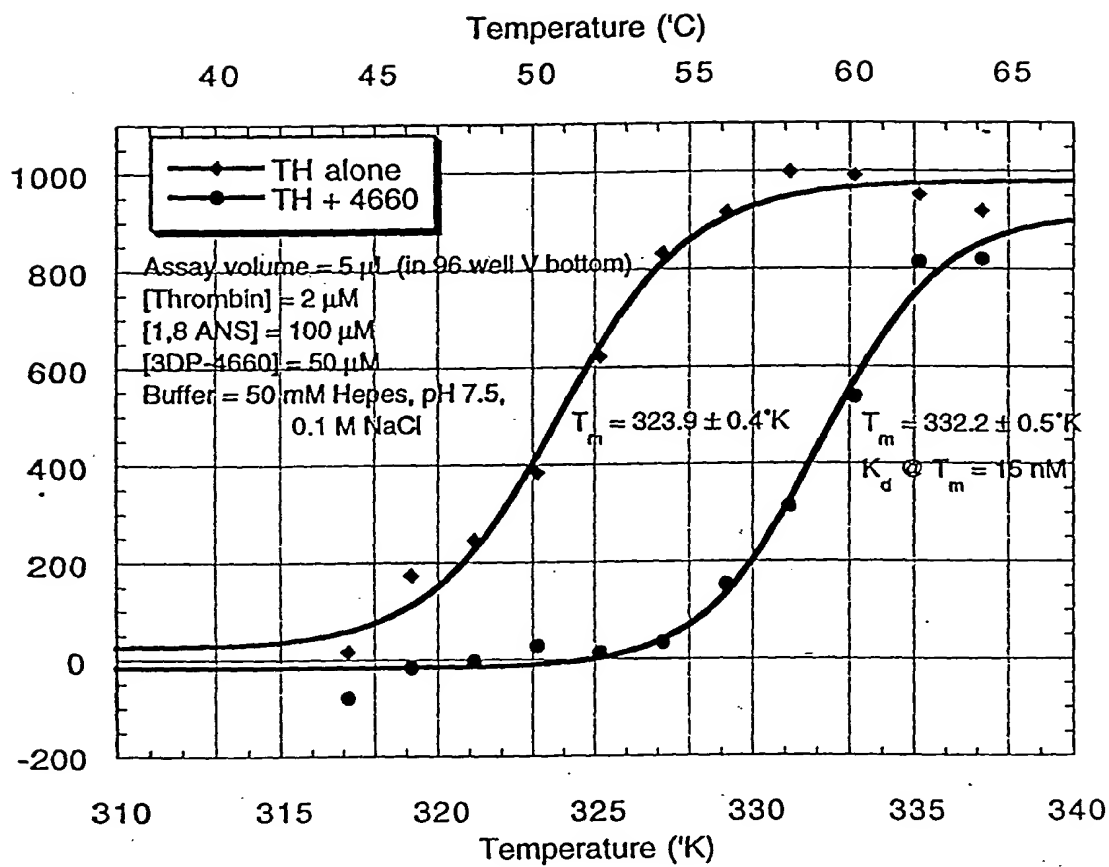


FIGURE 7

Fluorescence Intensity @ 460 nm



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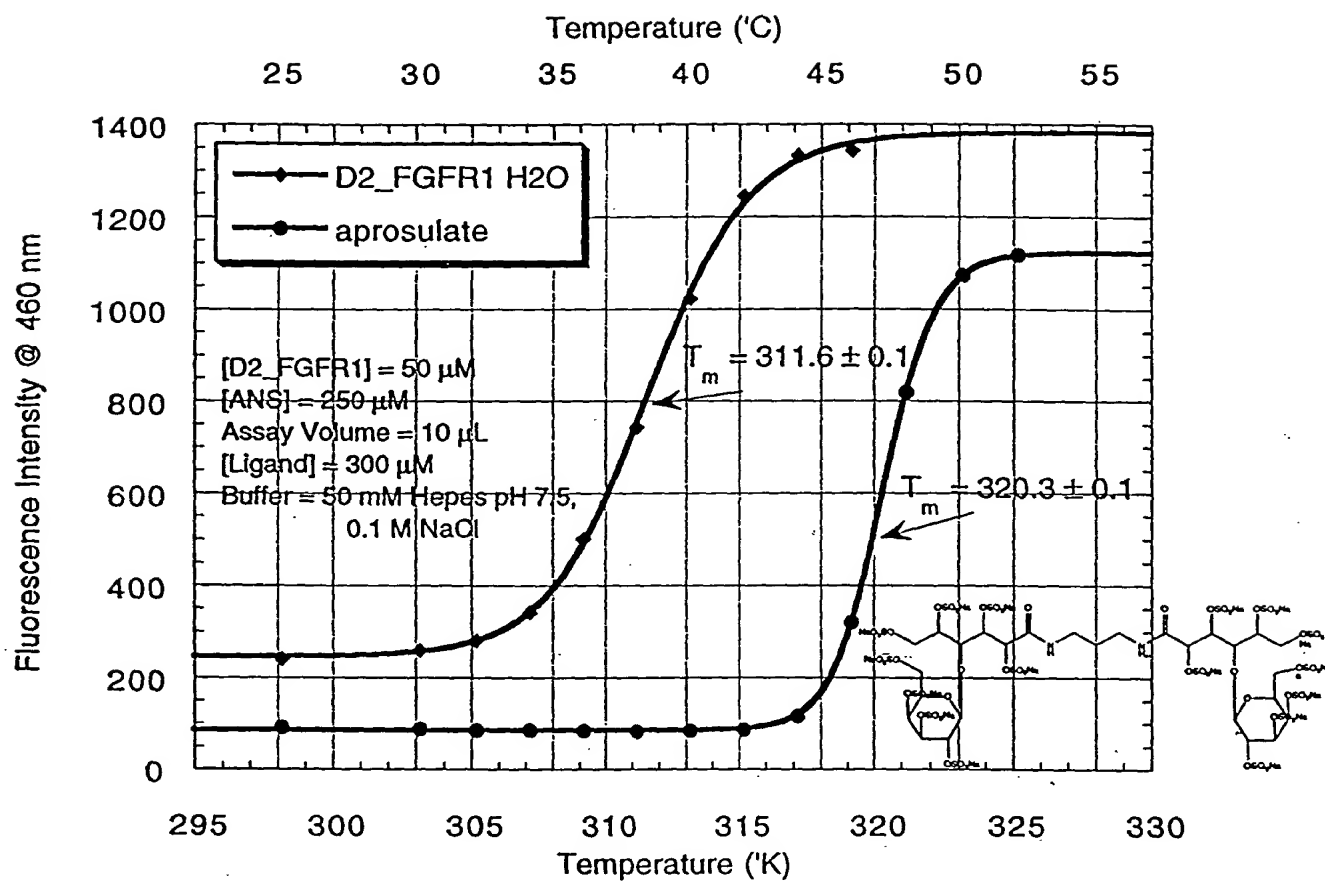




FIGURE 9

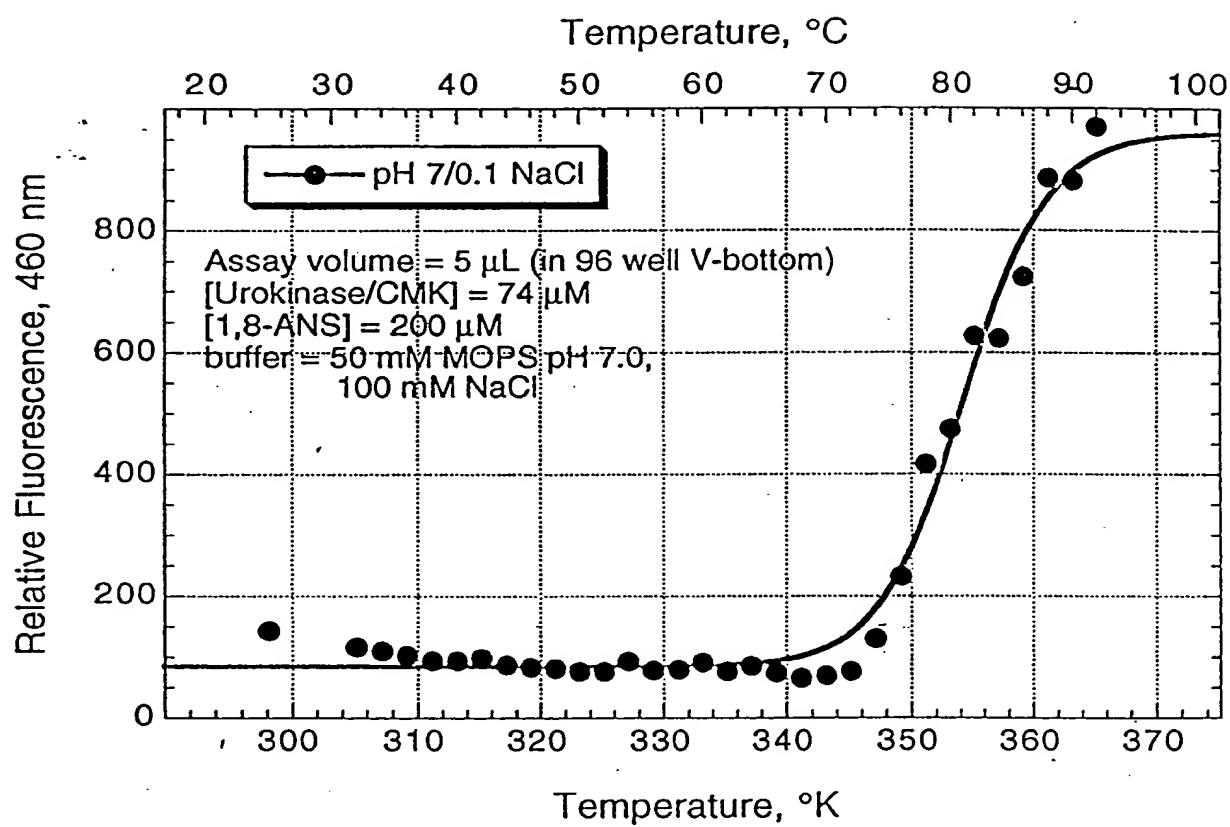
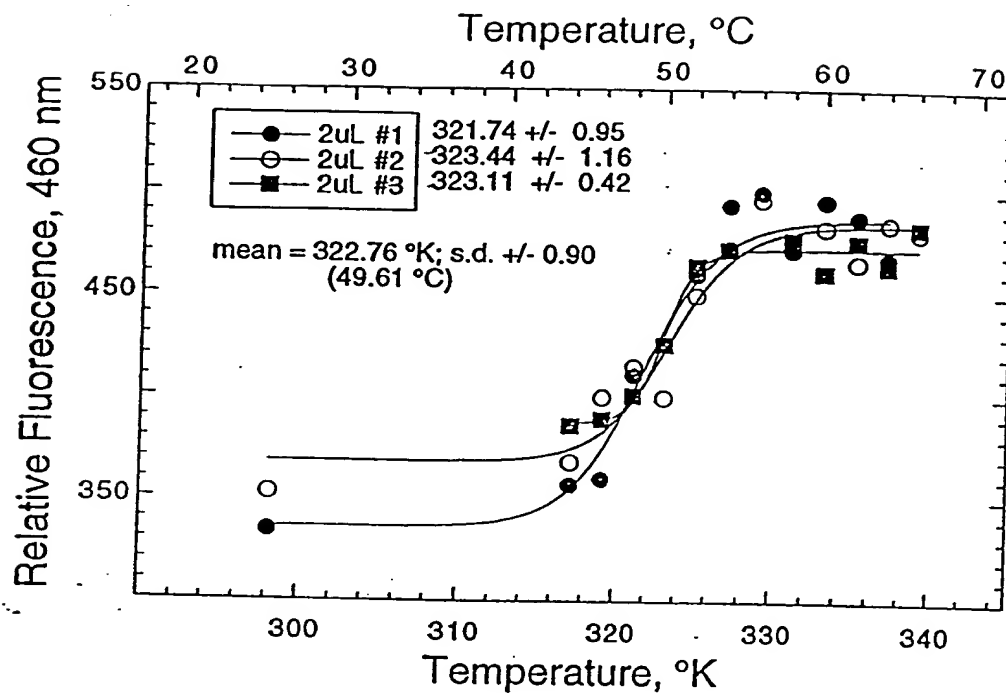


FIGURE 10



105050 9291050

FIGURE 11

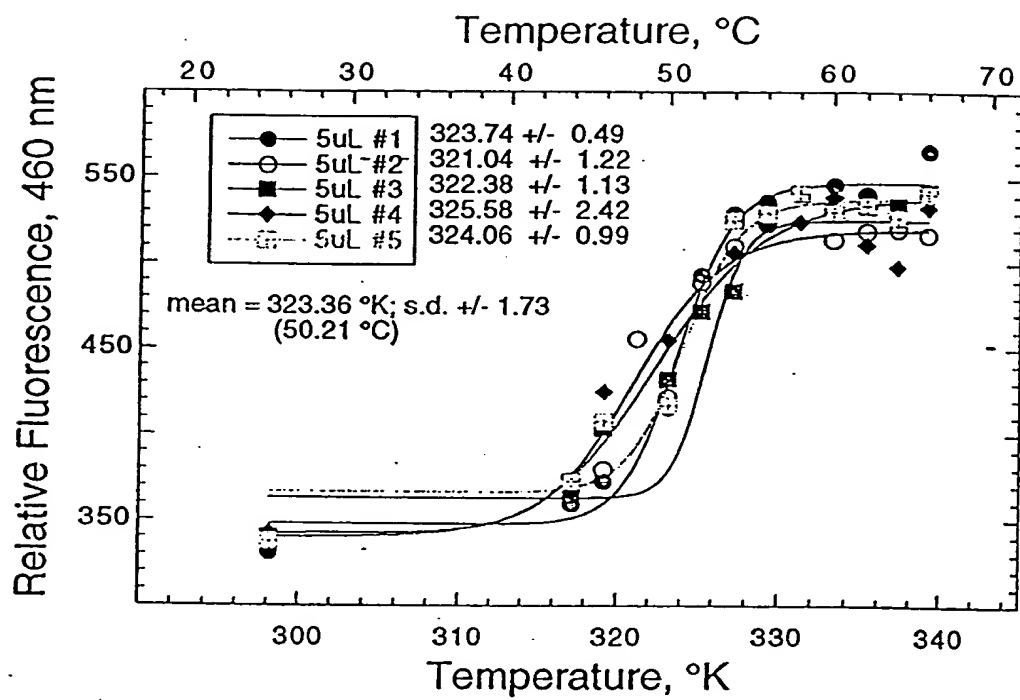


FIGURE 12

Fluorescence @ 55°C (328.15°K)  
(360 nm ex./460 nm em.)

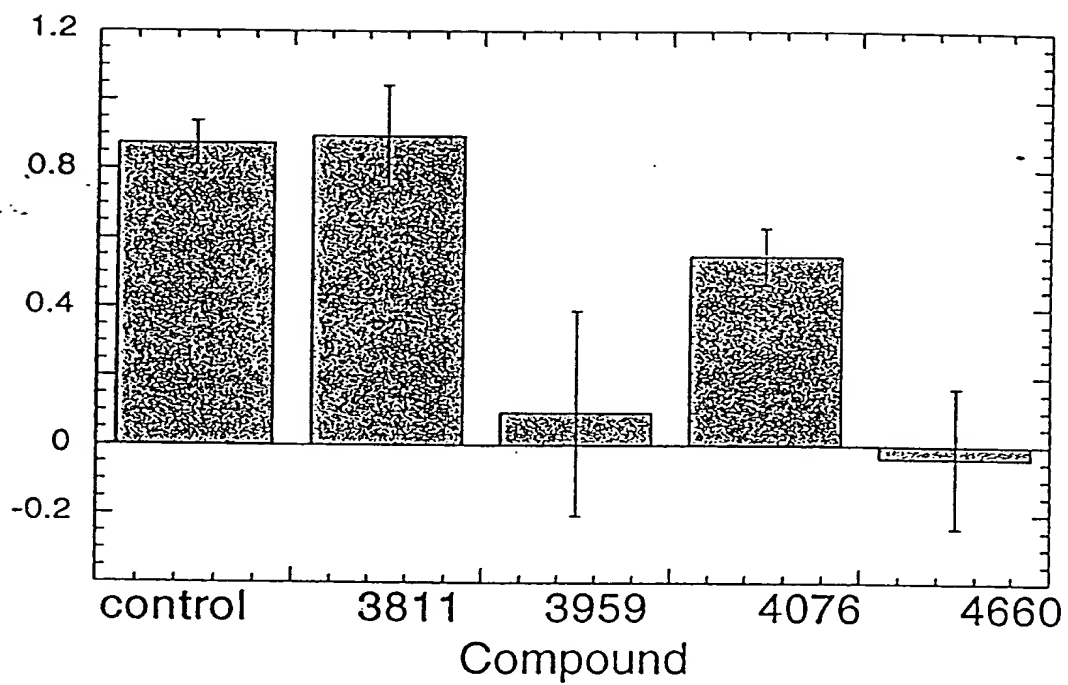


FIGURE 1-3

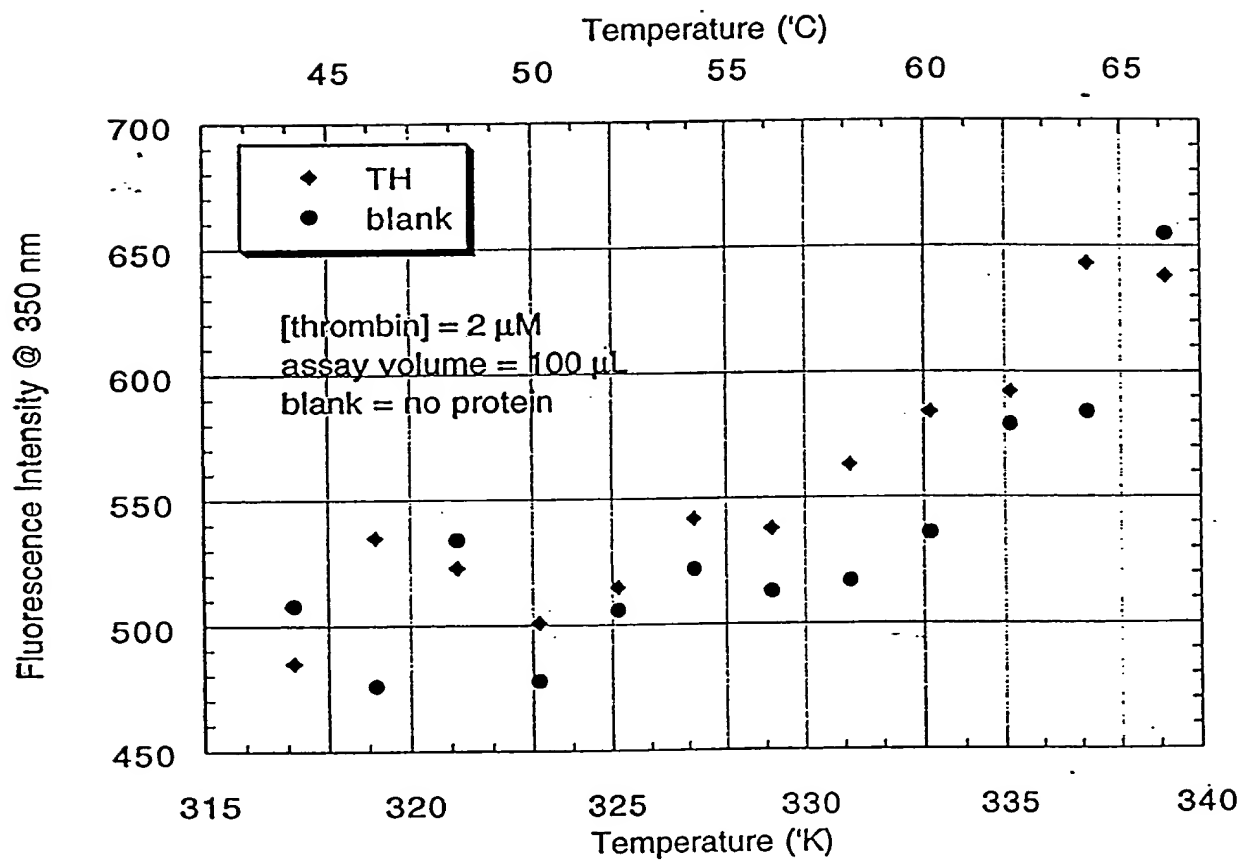


FIGURE 14

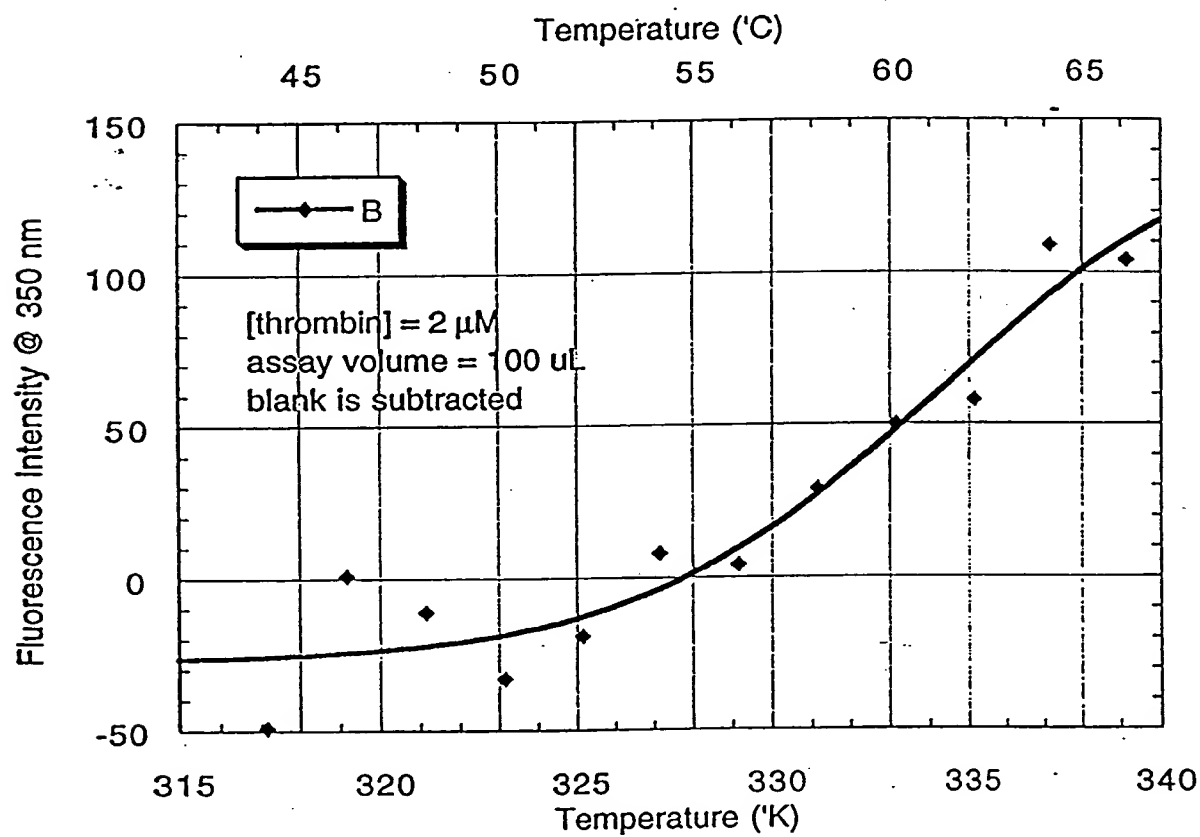


FIGURE 15

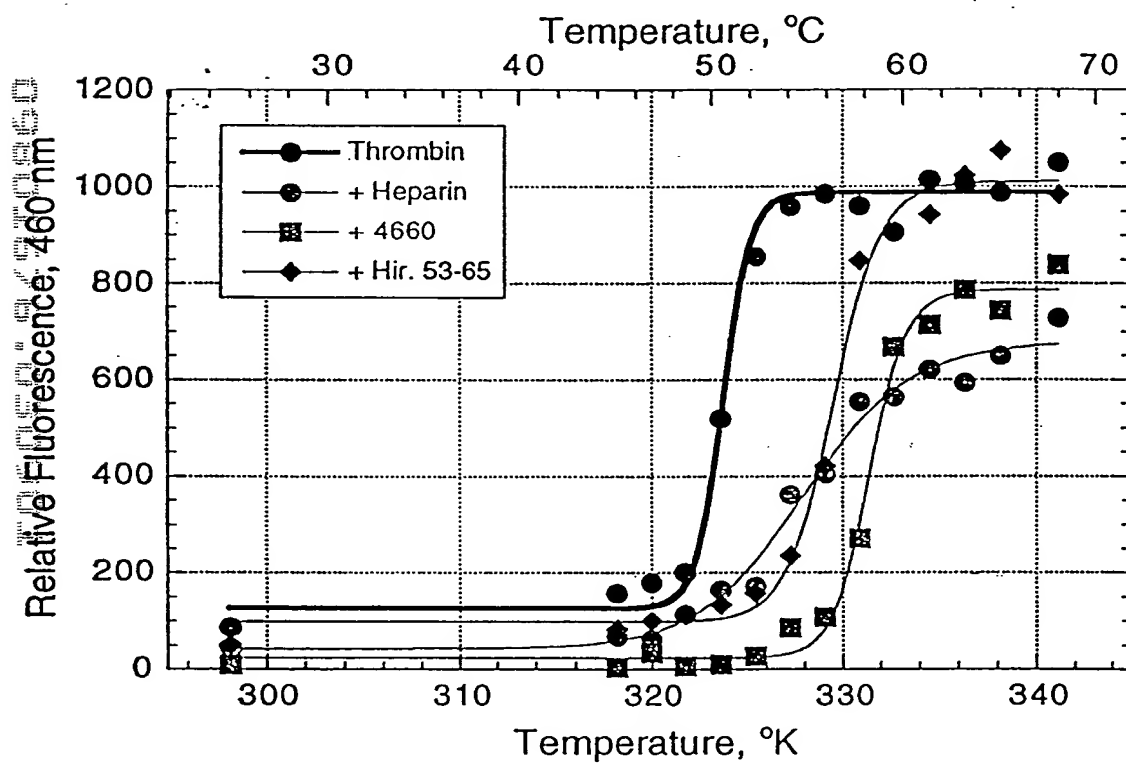


FIGURE 16

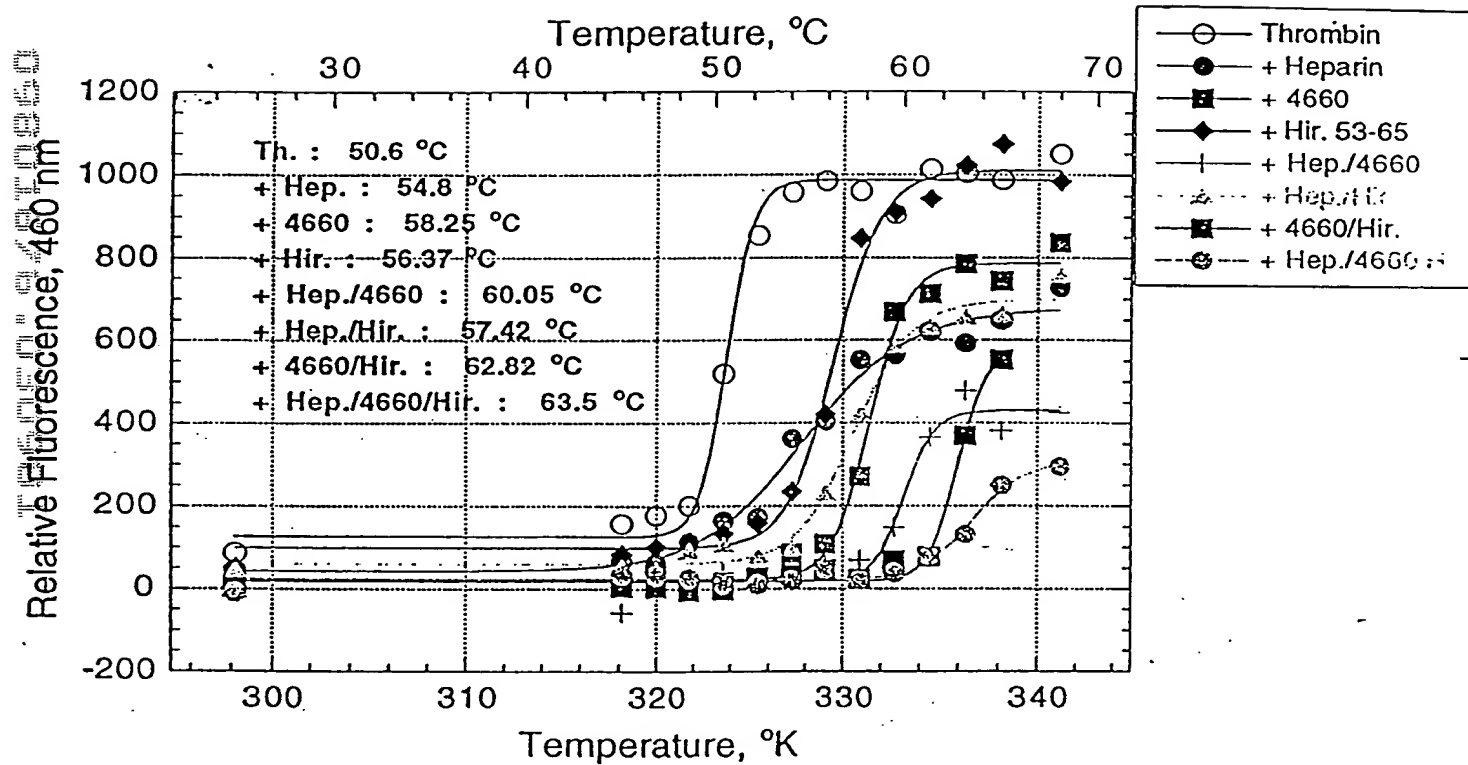




FIG. 17A

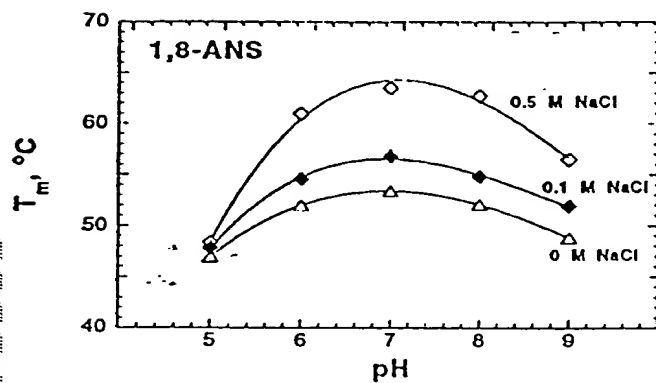


FIG. 17B

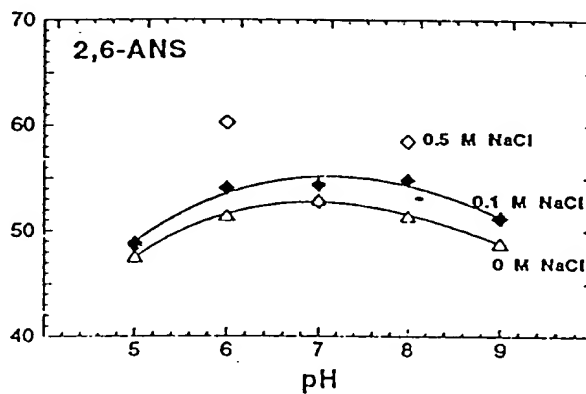


FIG. 17C

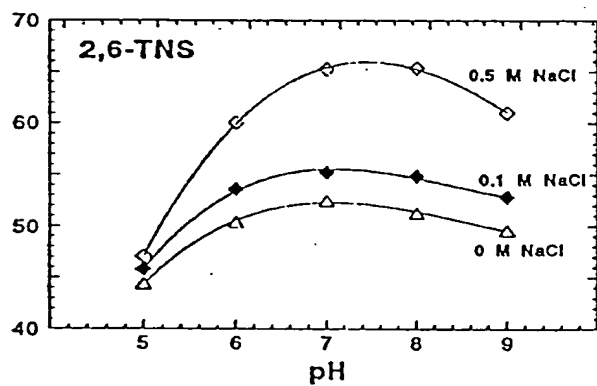


FIG. 17D

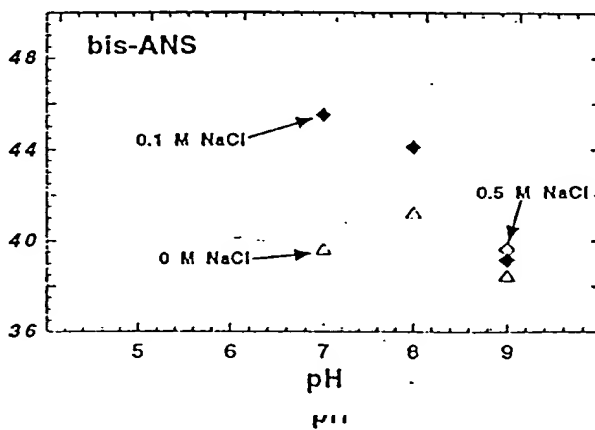


FIGURE 18

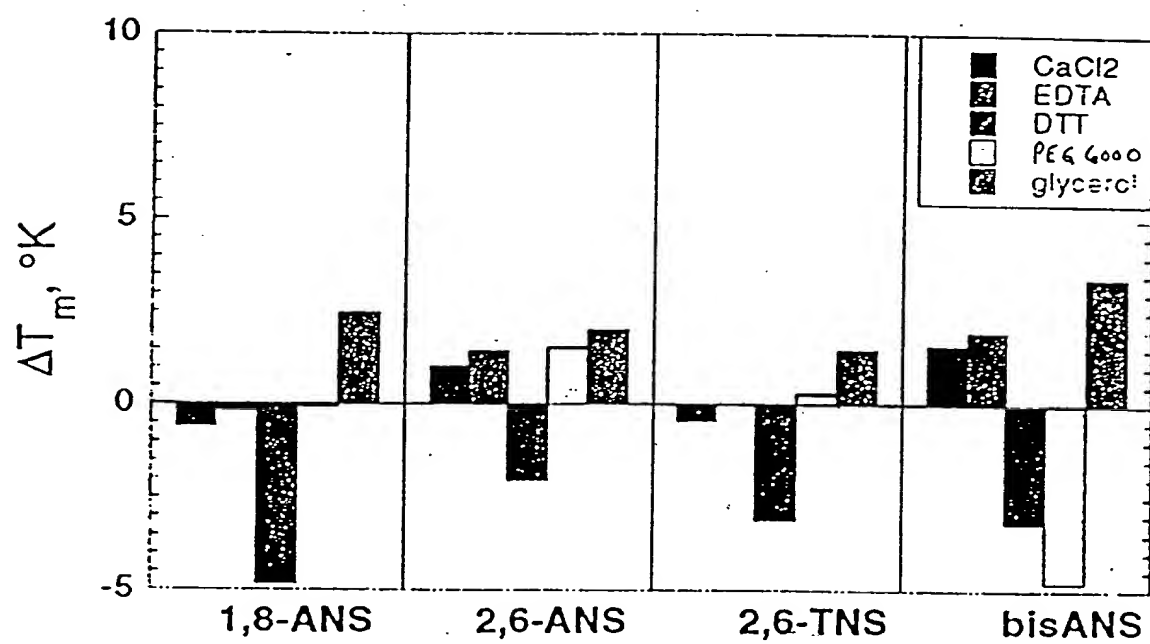


FIGURE 19

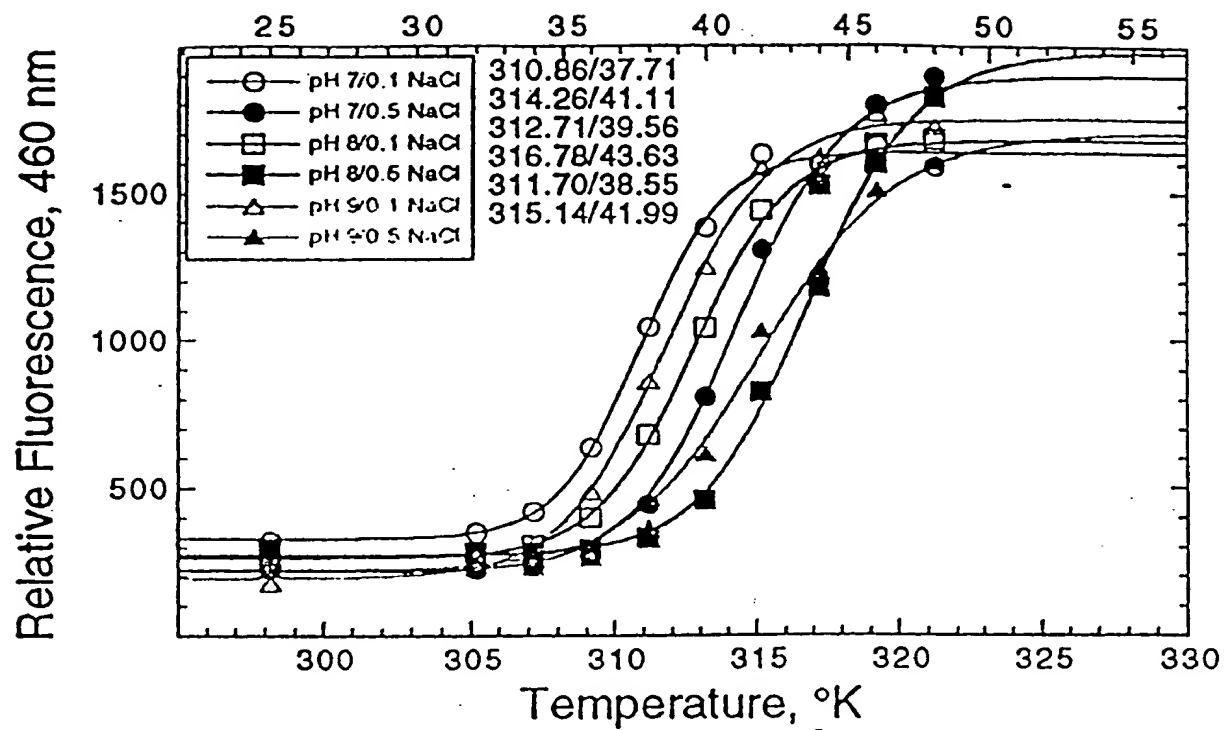


FIGURE 20

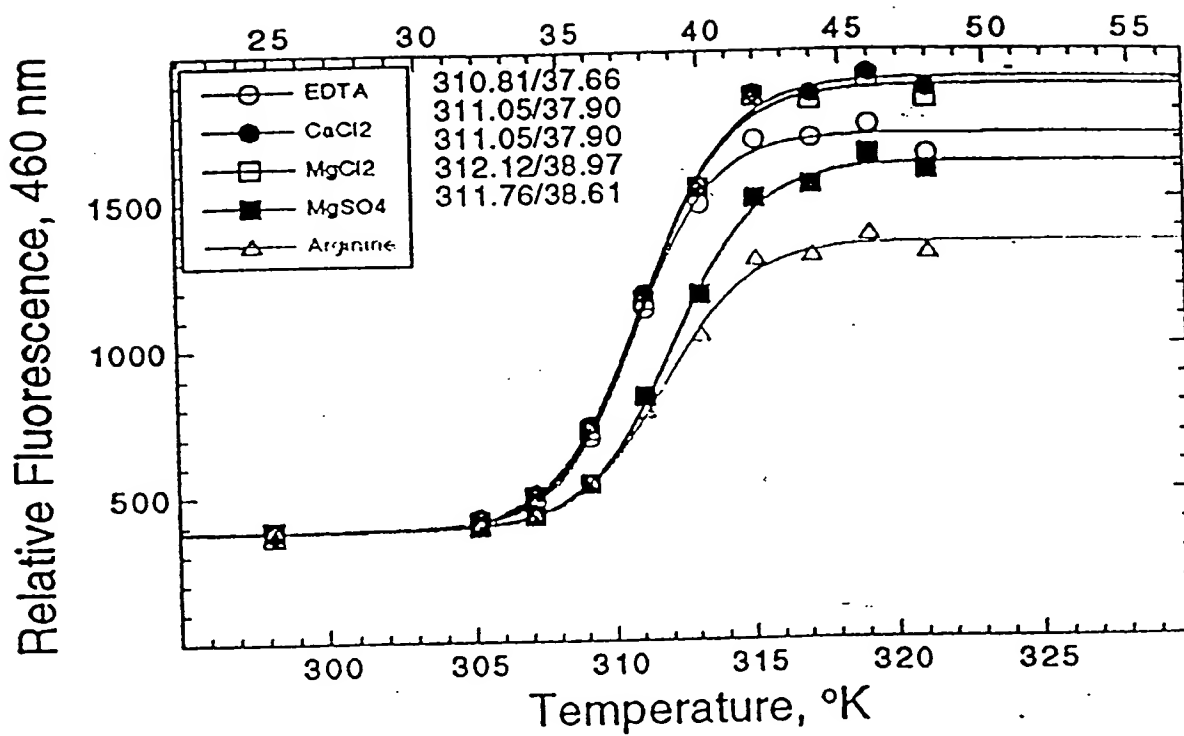


FIGURE 21

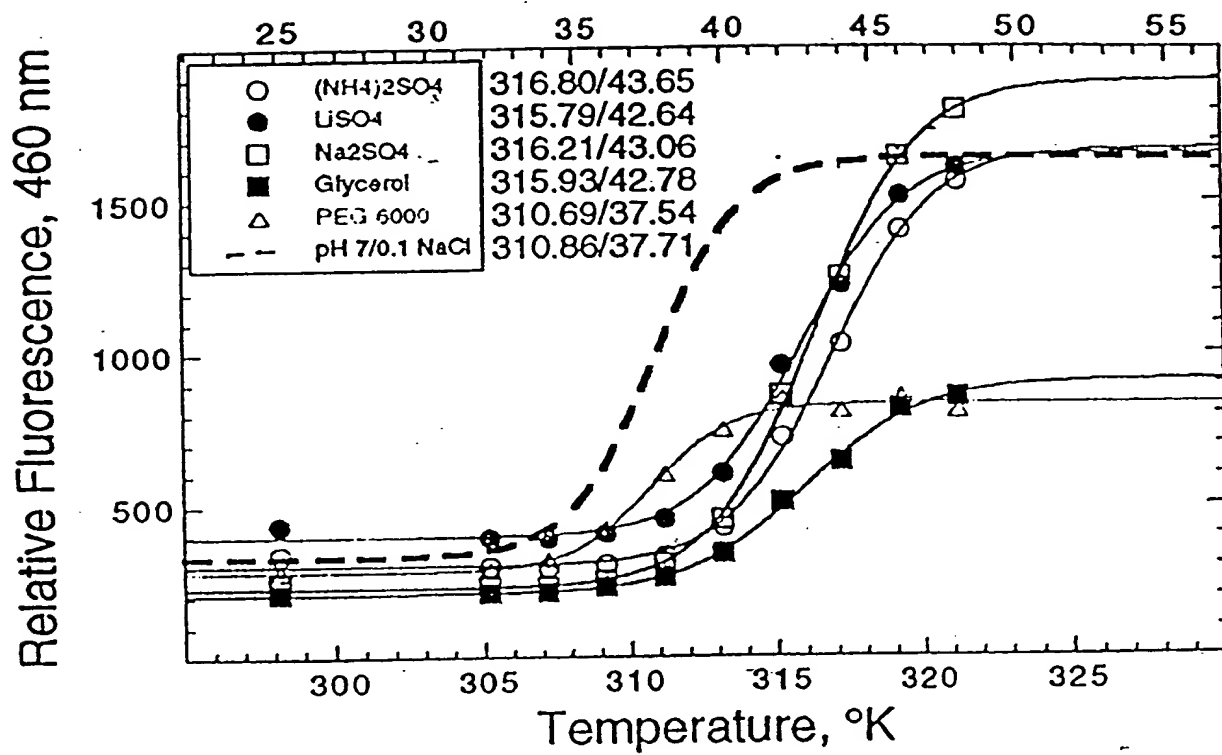


FIGURE 22

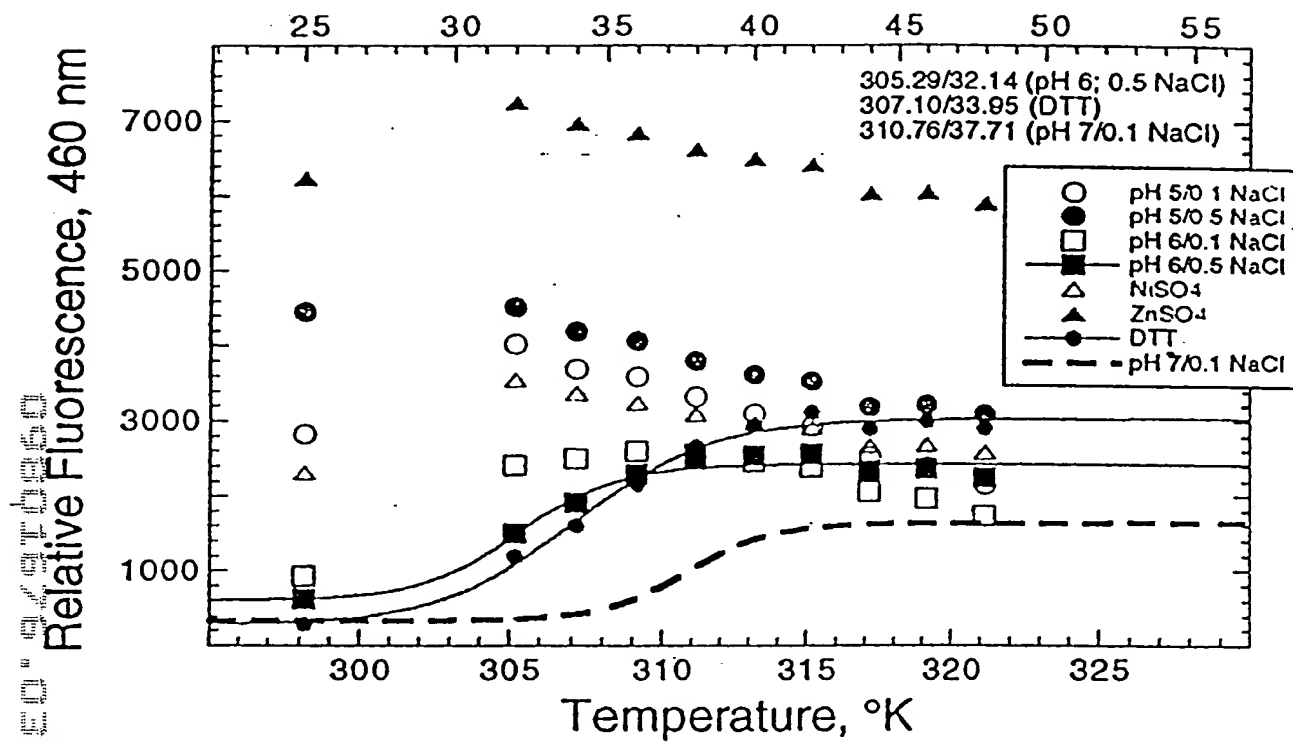


FIGURE 23

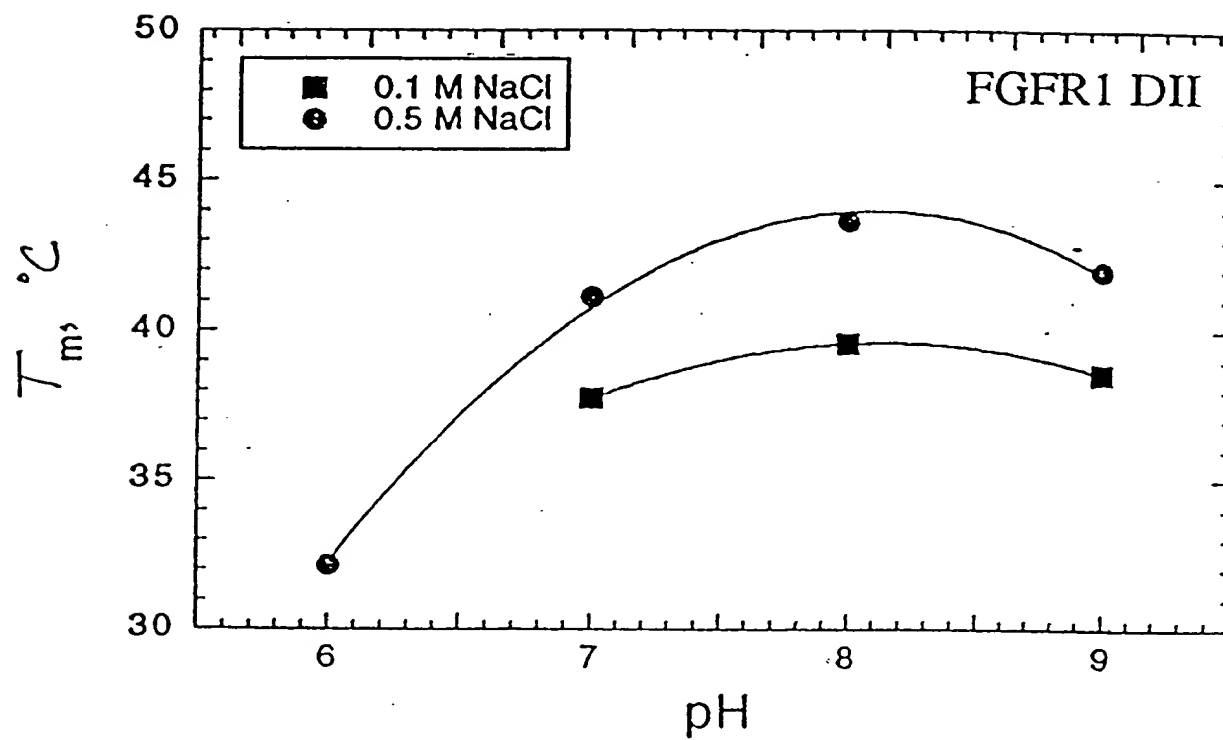


FIGURE 24

FGFR1 DII

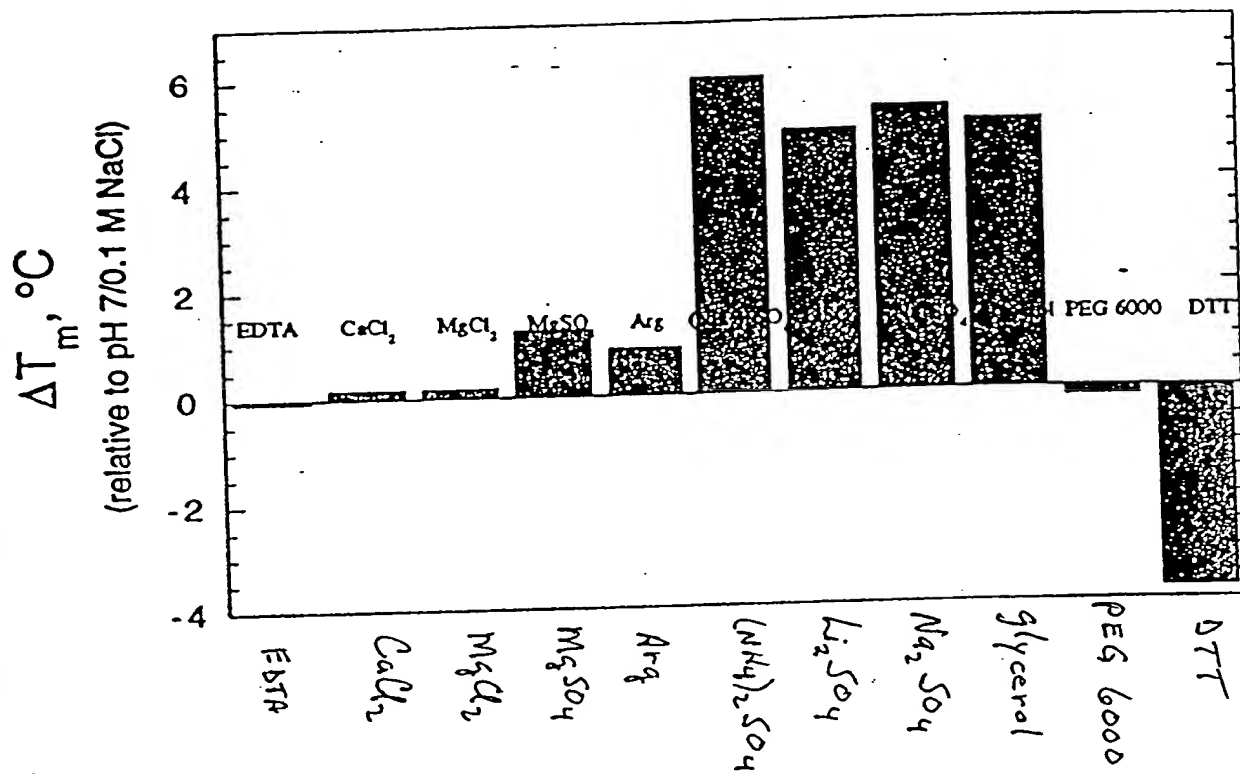




FIGURE 25

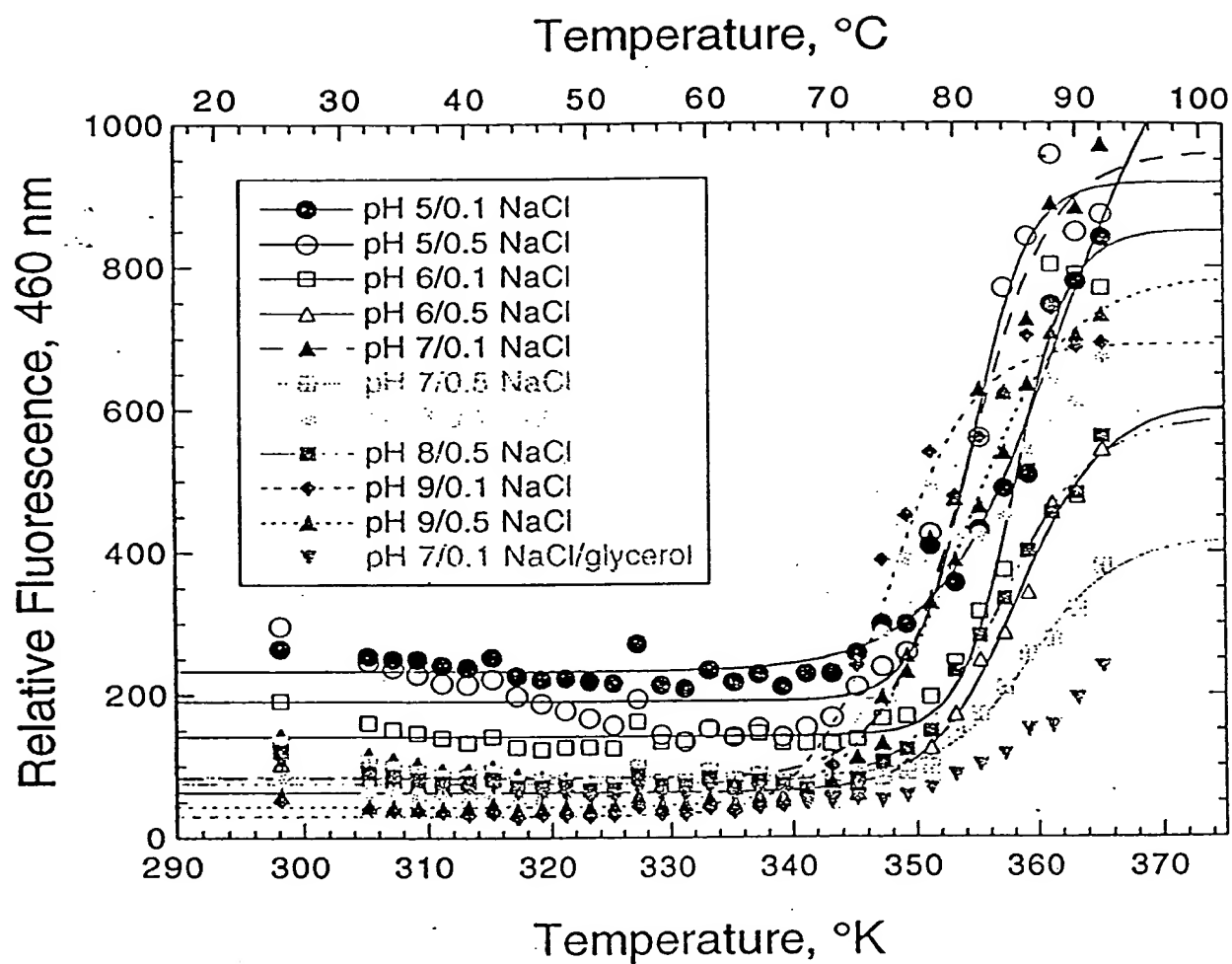
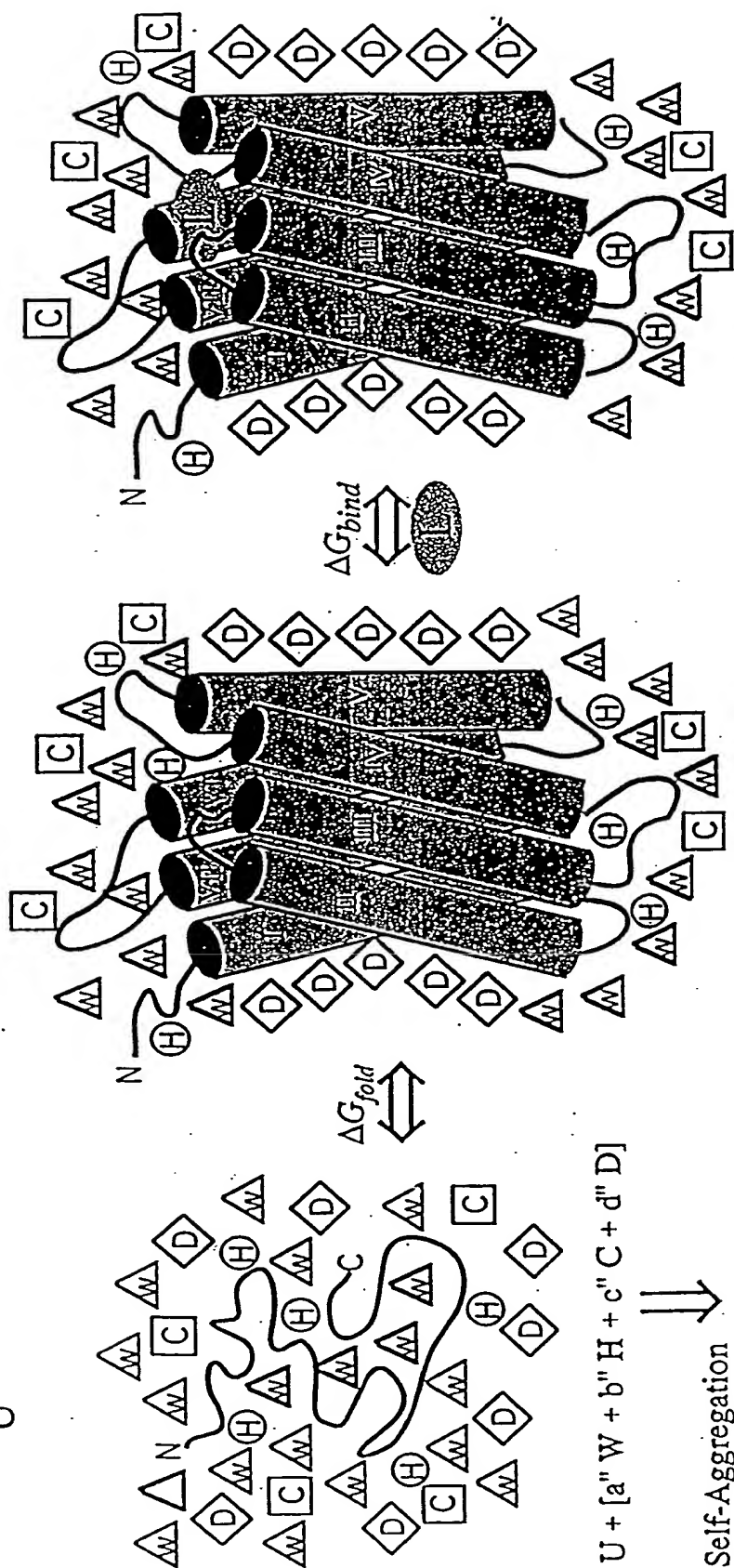


FIGURE 26

Native State  
N

Unfolded State  
U



$$N + L + [a' W + b' H + c' C + d' D]$$

$$N'L' + [a' W + b' H + c' C + d' D]$$

$$\Delta G_{fold} = \Delta G_{conf} + \sum_i \Delta g_{i,int} + \sum_i \Delta g_{i,s} + \Delta W_{el} + (\Delta G_{bind})$$

Legend	
	= Water Molecules
	= Ionizable Protons
	= Counterions or Hofmeister Salts
	= Detergent or Lipid Molecules

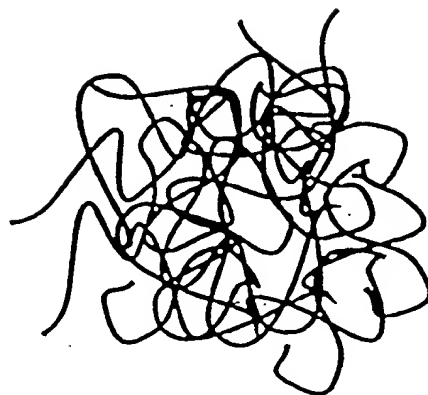


FIGURE 27

**Tagged Denatured Protein**

Denaturant: 6 M Gdn-HCl  
8 M Urea  
0.2% SDS

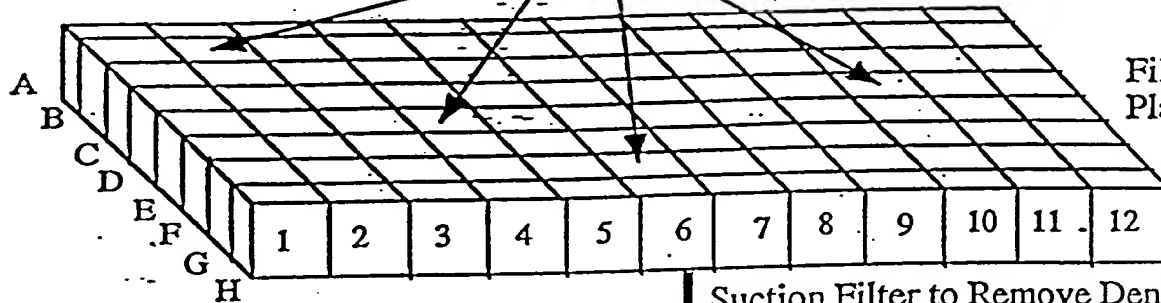
Reducing Agents: DTT, or  $\beta$ ME

H-H-H-H-H-H

R-R-R-R-R

$\text{Ni}^{2+}$  NTA Resin (Novagen)

or  
Heparin Sepharose  
(Pharmacia Biotech)

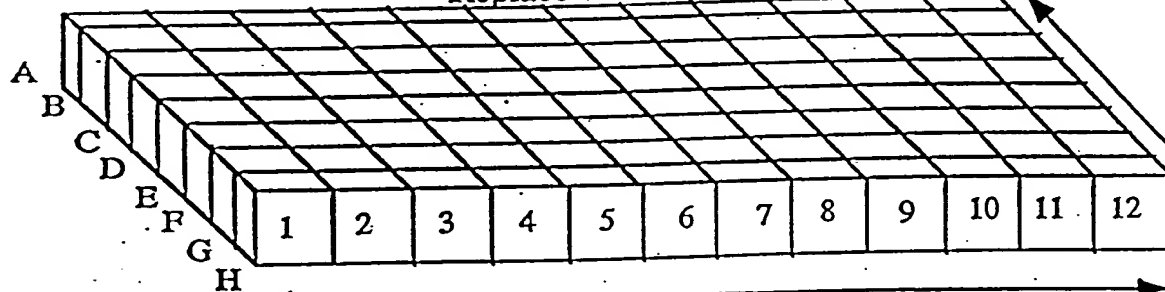


Filter Screen  
Plate (Millipore)

Suction Filter to Remove Denaturant

**Microplate Protein Folding**

Replace with  $n$ -Variable Refolding Conditions



Variable X (pH, Temp., Glycerol, Detergent, [Detergent],  
Glutathione Redox Buffer, ligand or cofactor, etc.)

*Thermal shift Assay*

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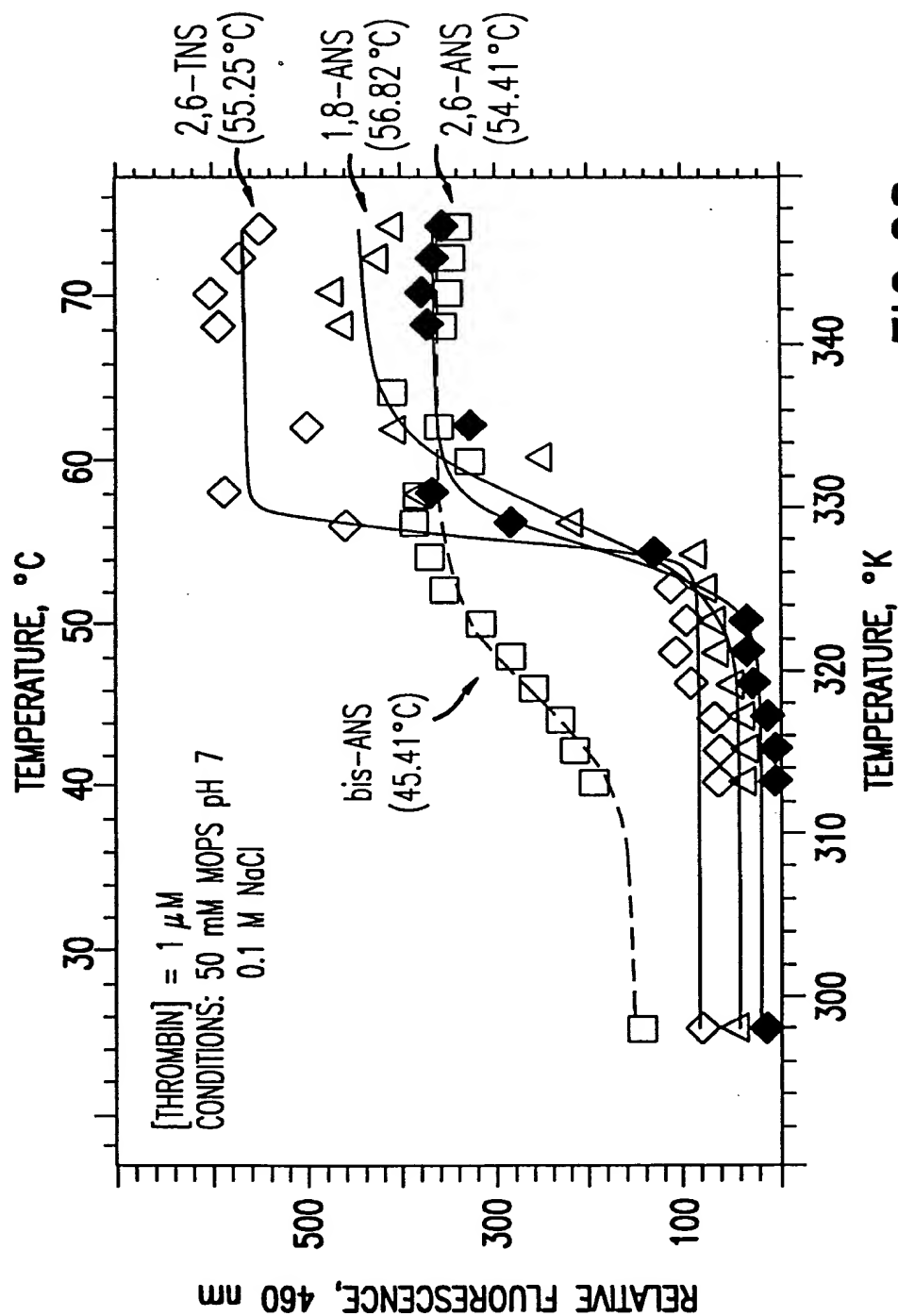


FIG.28

FIG. 29

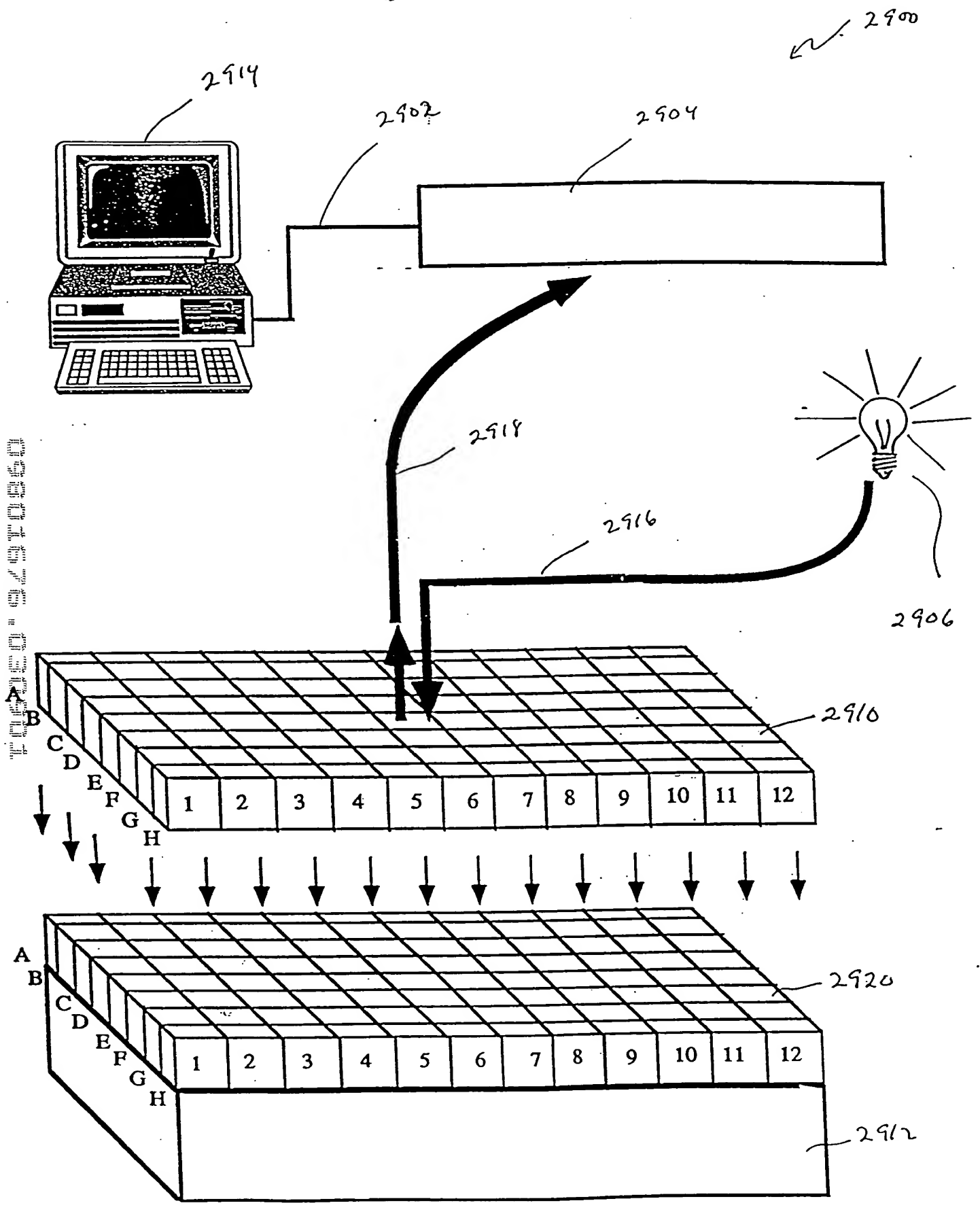


FIG. 30

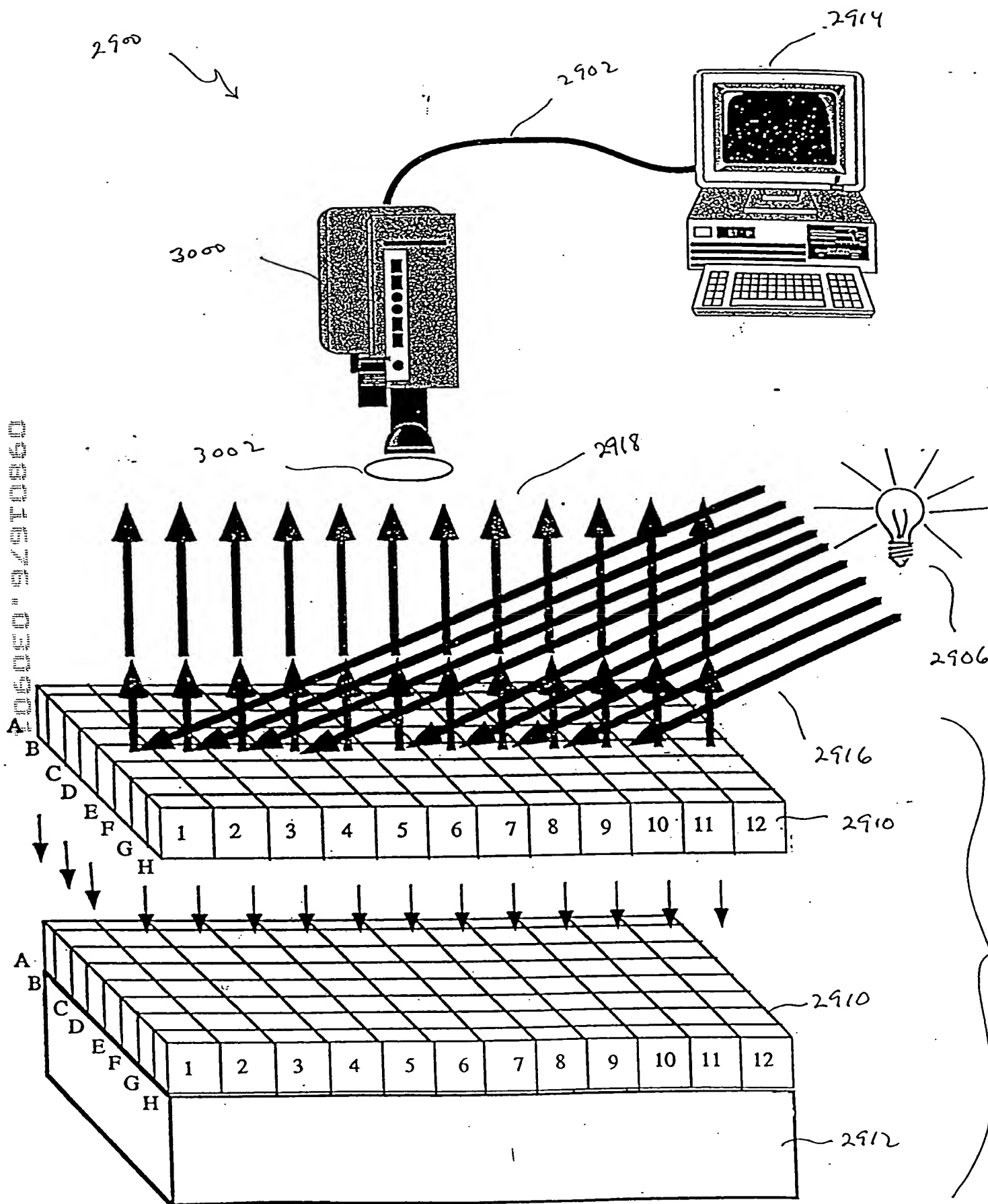


FIG. 31

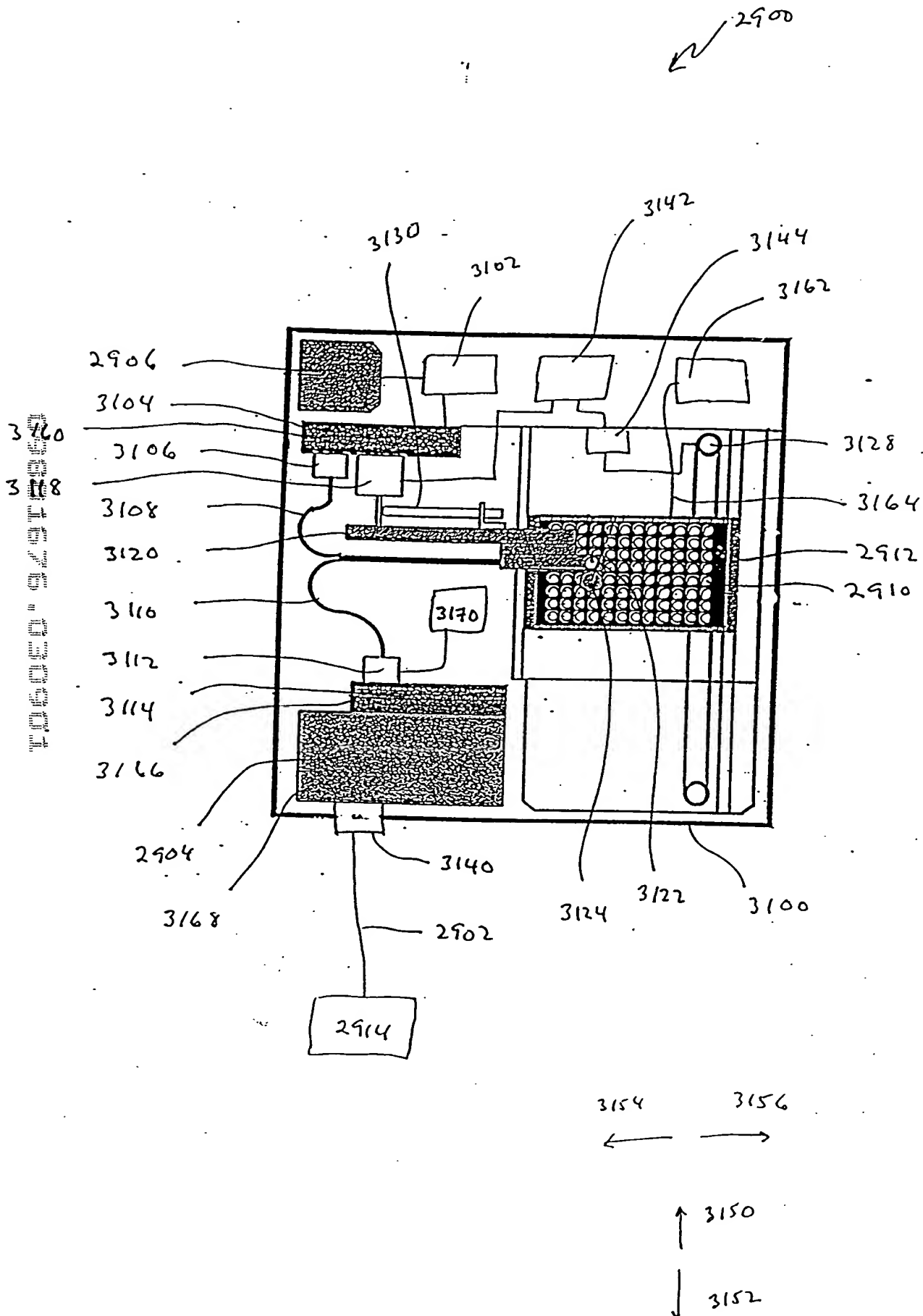


FIG. 32A

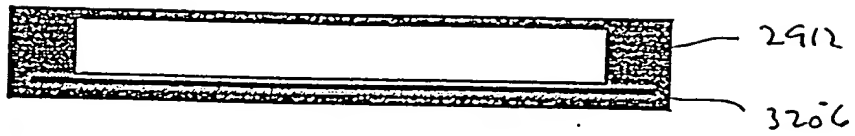


FIG. 32B

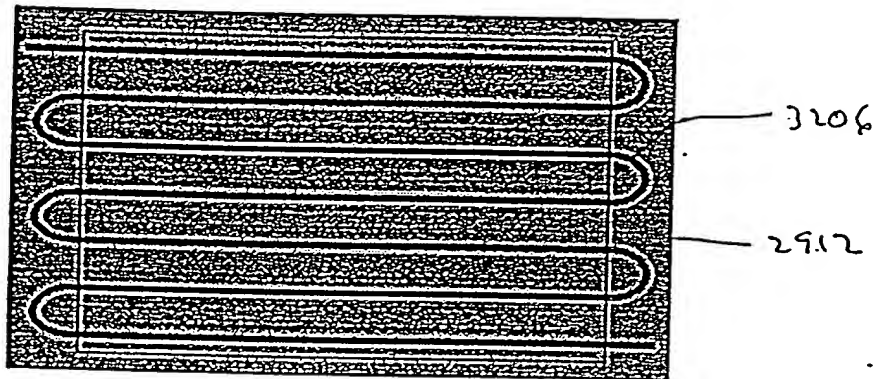


FIG. 32C



FIG. 32D



FIG. 32E

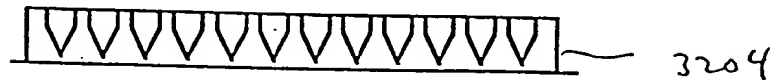




FIG. 33

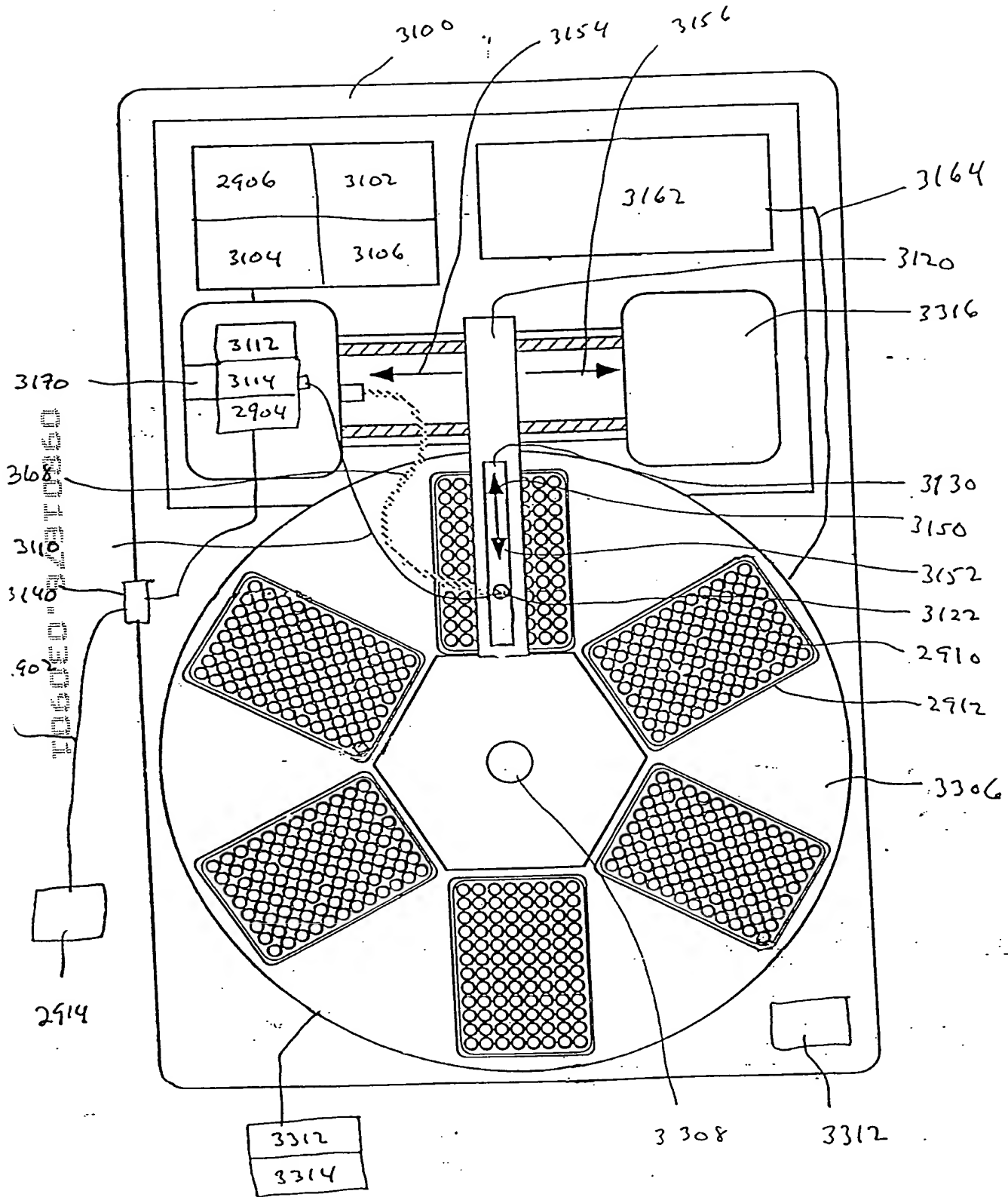
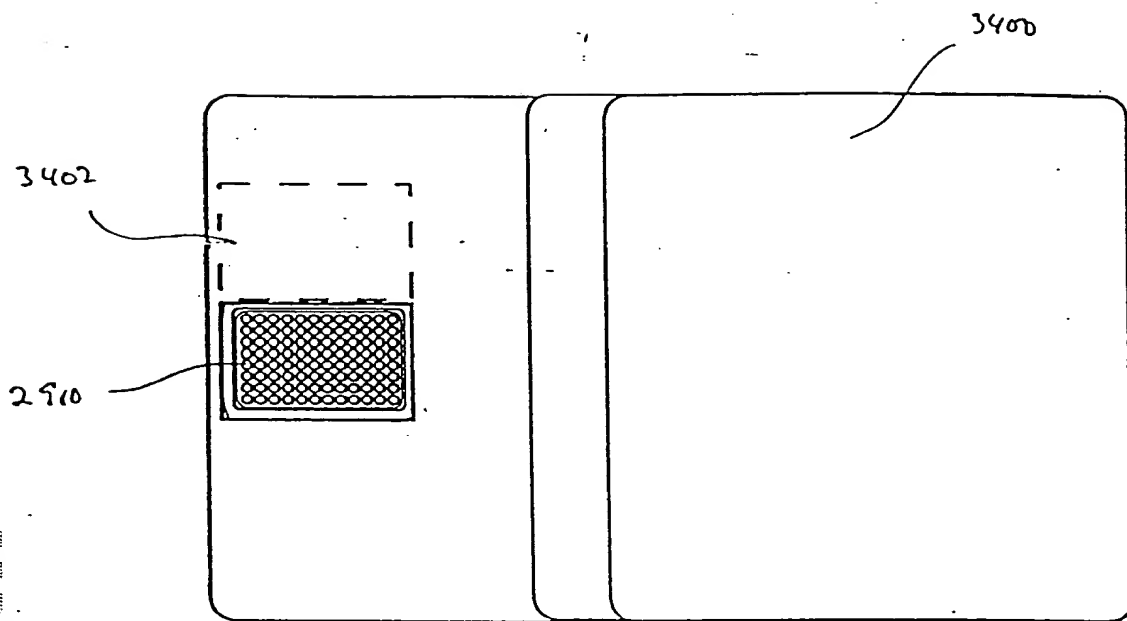
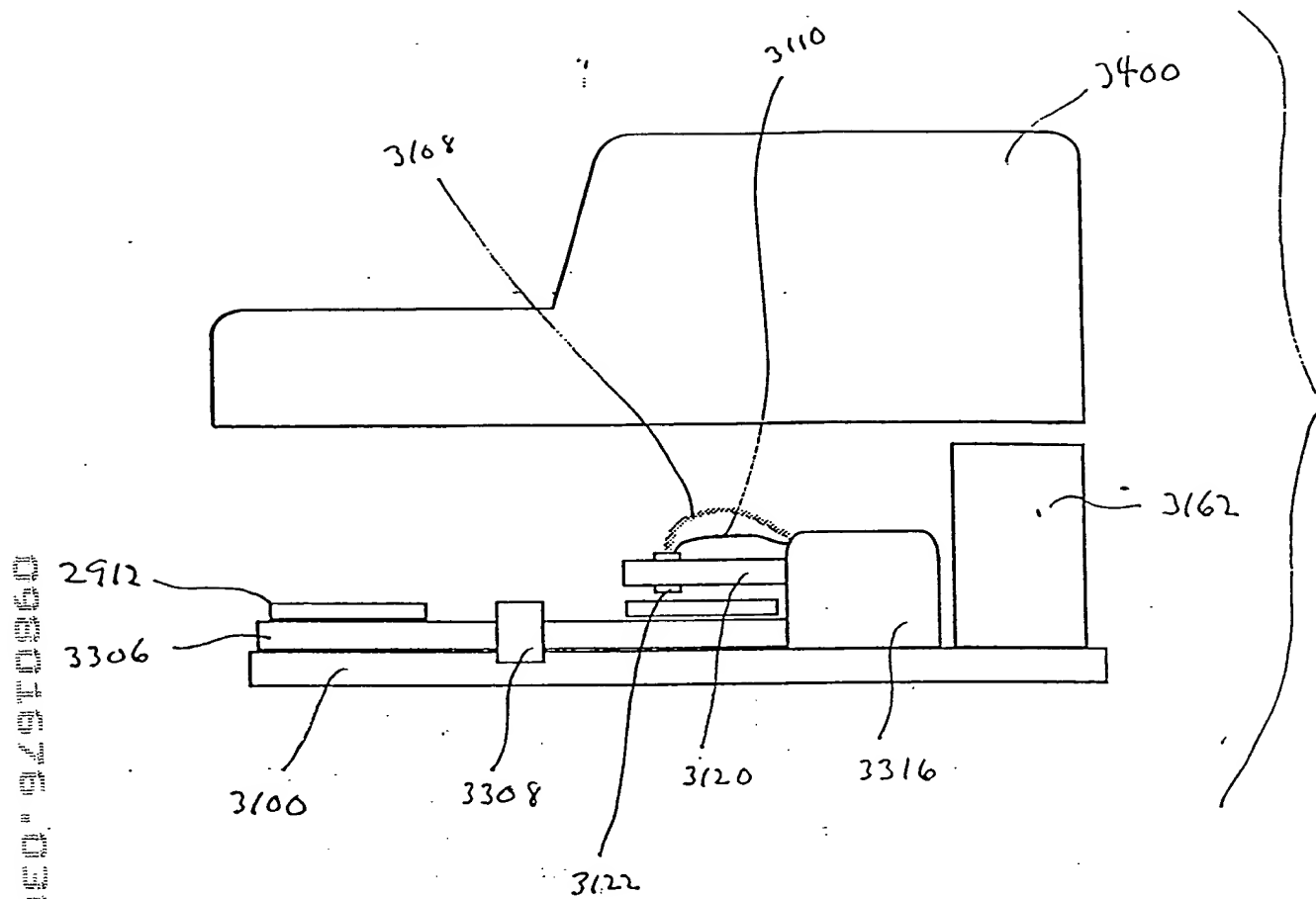


FIG. 34



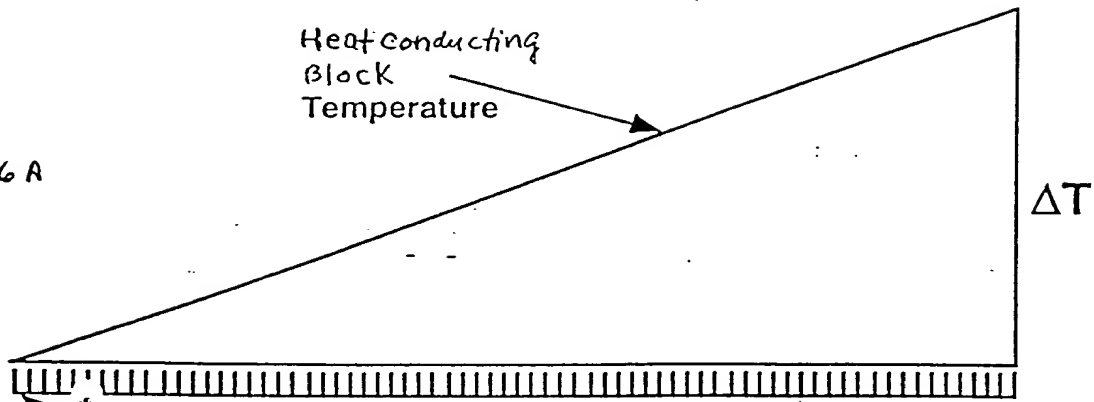
09301676 030901

FIG. 35



03601676 0360301

FIG. 36A



66 Seconds = 6 Reads + 6 Moves

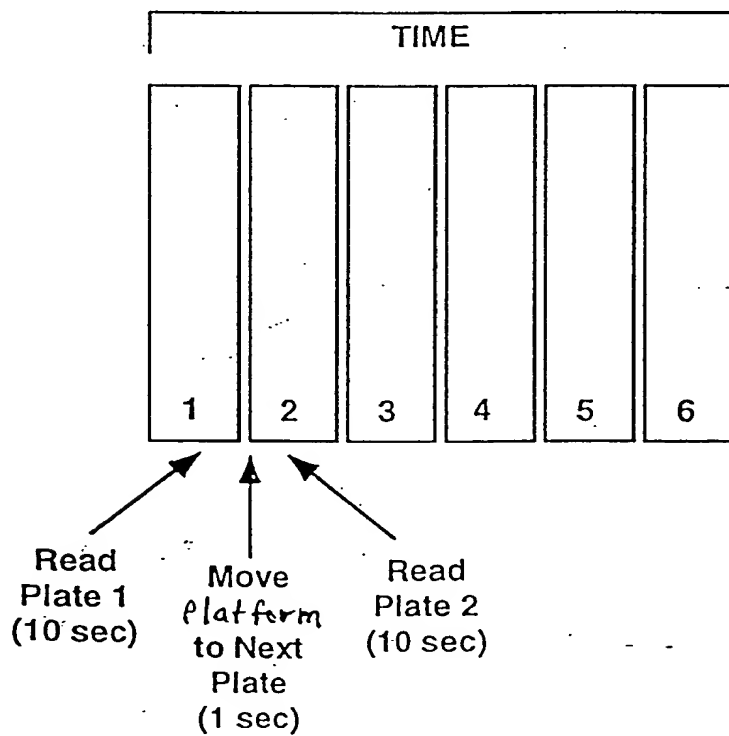
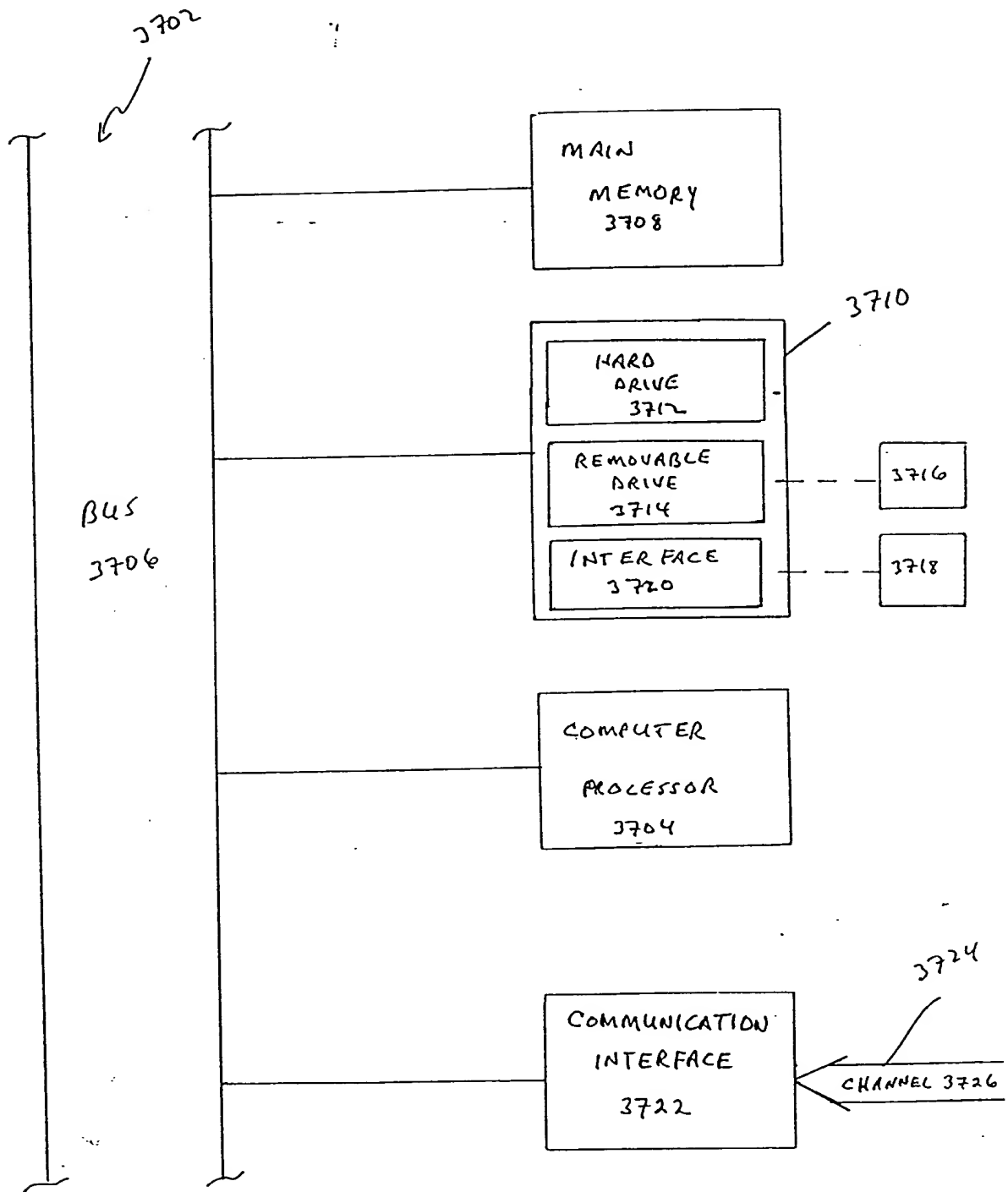


FIG. 36B

FIG. 37



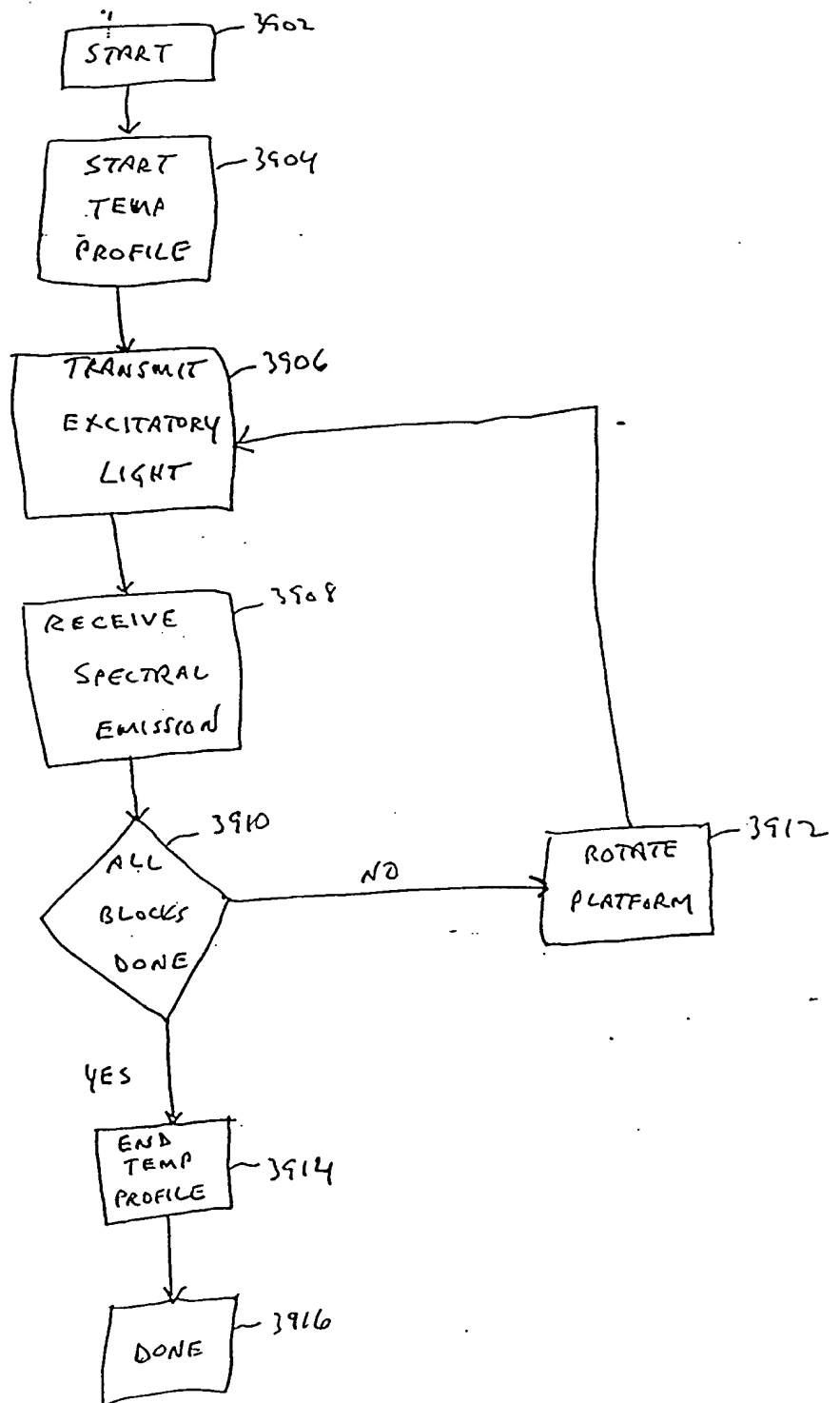
09601676-030901



THE UNIVERSITY OF CHICAGO

FIG. 39

3900  
↙



090307030504

FIGURE 40

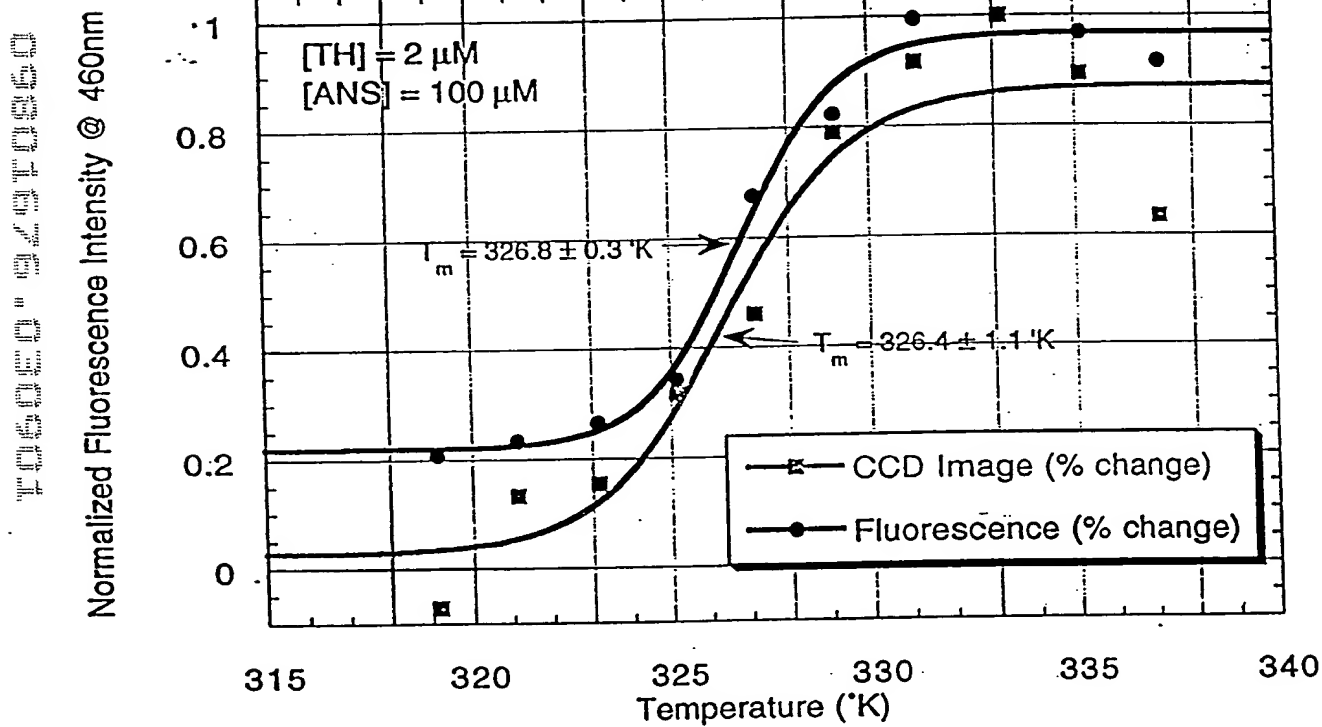
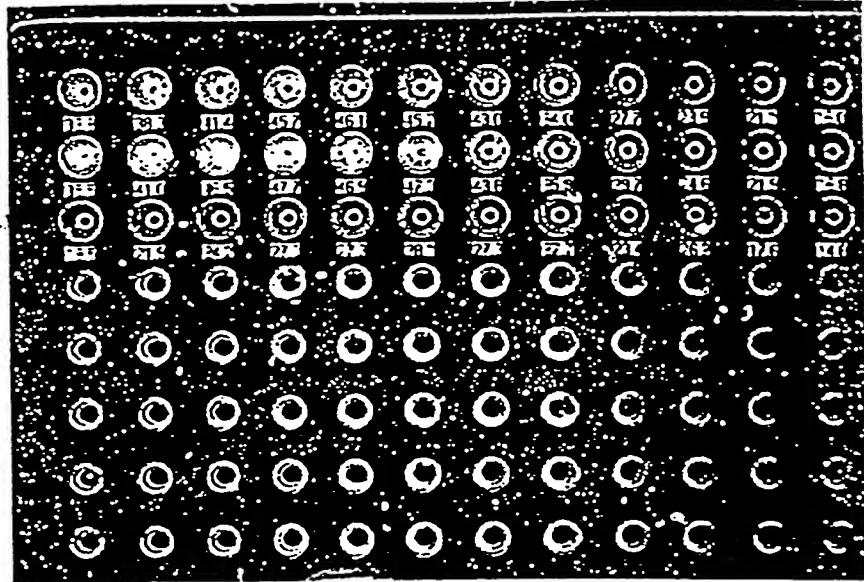




FIG. 41A

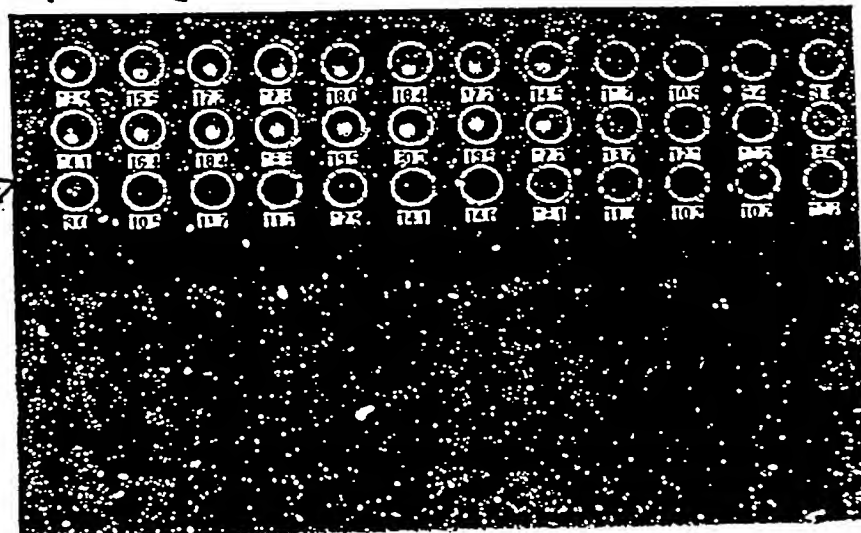
control →  
RNA/protein



66°C ← 44

FIG. 41B

control →



70°C ← 46

09801676.030901

FIGURE 42

